

MALTA-Consolider Team: ARTÍCULOS PUBLICADOS 2008-2015 (actualizado 07/2015) – PUBLISHED ARTICLES 2008-2015 (updated July, 2015)

AUTORES	TÍTULO	REVISTA	VOLUMEN	PAGINA	AÑO	DOI	CITAS
Roig-Sagues, A. X.; Asto, E.; Engers, I.; Hernandez-Herrero, M. M.	Improving the efficiency of ultra-high pressure homogenization treatments to inactivate spores of Alicyclobacillus spp. in orange juice controlling the inlet temperature	LWT-FOOD SCIENCE AND TECHNOLOGY	63	866	2015	10.1016/j.lwt.2015.04.056	0
Mujica, Andres; Pickard, Chris J.; Needs, Richard J.	Low-energy tetrahedral polymorphs of carbon, silicon, and germanium	PHYSICAL REVIEW B	91	214104	2015	10.1103/PhysRevB.91.214104	0
Zamora, A.; Guamis, B.	Opportunities for Ultra-High-Pressure Homogenisation (UHPH) for the Food Industry	FOOD ENGINEERING REVIEWS	7	130	2015	10.1007/s12393-014-9097-4	0
Zamora, A.; Juan, B.; Trujillo, A. J.	Compositional and biochemical changes during cold storage of starter-free fresh cheeses made from ultra-high-pressure homogenised milk	FOOD CHEMISTRY	176	433	2015	10.1016/j.foodchem.2014.12.070	0
Quintanilla, M.; Cantelar, E.; Cusso, F.; Barreda-Argueeso, J. A.; Gonzalez, J.; Valiente, R.; Rodriguez, F.	Control of infrared cross-relaxation in LiNbO ₃ :Tm ³⁺ through high-pressure	OPTICAL MATERIALS EXPRESS	5	1168	2015	10.1364/OME.5.001168	0
Contreras-Garcia, Julia; Marques, Miriam; Manuel Menendez, Jose; Manuel Recio, Jose	From ELF to Compressibility in Solids	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	16	8151	2015	10.3390/ijms16048151	0
Perez-Rodriguez, C.; Labrador-Paez, L.; Martin, I. R.; Rios, S.	Temperature response of the whispering gallery mode resonances from the green upconversion emission of an Er ³⁺ -Yb ³⁺ co-doped microsphere	LASER PHYSICS LETTERS	12	46003	2015	10.1088/1612-2011/12/4/046003	0
Ferragut, Victoria; Hernandez-Herrero, Manuela; Teresa Veciana-Nogues, Maria; Borrás-Suarez, Miquel; Gonzalez-Linares, Javier; Carmen Vidal-Carou, Maria; Guamis, Buenaventura	Ultra-high-pressure homogenization (UHPH) system for producing high-quality vegetable-based beverages: physicochemical, microbiological, nutritional and toxicological characteristics	JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE	95	953	2015	10.1002/jsfa.6769	0
Santamaria-Perez, D.; Errandonea, D.; Gomis, O.; Sans, J. A.; Pereira, A. L. J.; Manjon, F. J.; Popescu, C.; Rodriguez-Hernandez, P.; Munoz, A.	Crystal Structure of Sinhalite MgAlBO ₄ under High Pressure	JOURNAL OF PHYSICAL CHEMISTRY C	119	6777	2015	10.1021/jp512131e	0
Errandonea, D.; Gomis, O.; Santamaria-Perez, D.; Garcia-Domene, B.; Munoz, A.; Rodriguez-Hernandez, P.; Achary, S. N.; Tyagi, A. K.; Popescu, C.	Exploring the high-pressure behavior of the three known polymorphs of BiPO ₄ : Discovery of a new polymorph	JOURNAL OF APPLIED PHYSICS	117	105902	2015	10.1063/1.4914407	0
Garg, Alka B.; Errandonea, D.	High-pressure powder x-ray diffraction study of EuVO ₄	JOURNAL OF SOLID STATE CHEMISTRY	226	147	2015	10.1016/j.jssc.2015.02.003	1
Martin-Ramos, P.; Chamorro-Posada, P.; Ramos Silva, M.; Pereira da Silva, P. S.; Martin, I. R.; Lahoz, F.; Lavin, V.; Martin-Gil, J.	Synthesis, structural modelling and luminescence of a novel erbium(III) complex with 2,4-nonanedione and 2,2'-bipyridine ligands for chitosan matrices doping	OPTICAL MATERIALS	41	139	2015	10.1016/j.optmat.2014.09.036	0
Lopez-Moreno, Sinhue; Errandonea, Daniel; Rodriguez-Hernandez, Placida; Munoz, Alfonso	Polymorphs of CaSeO ₄ under Pressure: A First-Principles Study of Structural, Electronic, and Vibrational Properties	INORGANIC CHEMISTRY	54	1765	2015	10.1021/ic502690f	0

Martin-Ramos, P.; Martin, I. R.; Lahoz, F.; Hernandez-Navarro, S.; Pereira da Silva, P. S.; Hernandez, I.; Lavin, V.; Ramos Silva, M.	An erbium(III)-based NIR emitter with a highly conjugated beta-diketonate for blue-region sensitization	JOURNAL OF ALLOYS AND COMPOUNDS	619	553	2015	10.1016/j.jallcom.2014.09.090	0
Izquierdo-Ruiz, F.; Otero-de-la-Roza, A.; Contreras-Garcia, J.; Menendez, J. M.; Prieto-Ballesteros, O.; Recio, J. M.	Guest-host interactions in gas clathrate hydrates under pressure	HIGH PRESSURE RESEARCH	35	49	2015	10.1080/08957959.2014.996560	0
Abbasi-Perez, David; Recio, J. Manuel; Kantorovich, Lev	The role of isomerization in the kinetics of self-assembly: p-terphenyl-m-dicarbonitrile on the Ag(111) surface	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	17	11182	2015	10.1039/c5cp00220f	0
Monteseguro, V.; Rodriguez-Hernandez, P.; Ortiz, H. M.; Venkatramu, V.; Manjon, F. J.; Jayasankar, C. K.; Lavin, V.; Munoz, A.	Structural, elastic and vibrational properties of nanocrystalline lutetium gallium garnet under high pressure	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	17	9454	2015	10.1039/c4cp05903d	0
Martin-Ramos, Pablo; Coutinho, Joana T.; Silva, Manuela Ramos; Pereira, Laura C. J.; Lahoz, Fernando; Pereira da Silva, Pedro S.; Lavin, Victor; Martin-Gil, Jesus	Slow magnetic relaxation and photoluminescent properties of a highly coordinated erbium(III) complex with dibenzoylmethane and 2,2'-bipyridine	NEW JOURNAL OF CHEMISTRY	39	1703	2015	10.1039/c4nj01828a	0
Rathaiiah, M.; Martin, I. R.; Babu, P.; Linganna, K.; Jayasankar, C. K.; Lavin, V.; Venkatramu, V.	Photon avalanche upconversion in Ho ³⁺ -doped gallium nano-garnets	OPTICAL MATERIALS	39	16	2015	10.1016/j.optmat.2014.10.050	0
Ramos Silva, M.; Martin-Ramos, P.; Coutinho, J. T.; Pereira, L. C. J.; Lavin, V.; Martin, I. R.; Pereira Silva, P. S.; Martin-Gil, J.	Slow magnetic relaxation mechanisms in erbium SIMs	DALTON TRANSACTIONS	44	1264	2015	10.1039/c4dt02767a	2
Oliva, R.; Segura, A.; Ibanez, J.; Yamaguchi, T.; Nanishi, Y.; Artus, L.	Pressure dependence of the refractive index in wurtzite and rocksalt indium nitride	APPLIED PHYSICS LETTERS	105	232111	2014	10.1063/1.4903860	0
Bermejo-Prada, Ana; Van Buggenhout, Sandy; Otero, Laura; Houben, Ken; Van Loey, Ann; Hendrickx, Marc E.	Kinetics of thermal and high-pressure inactivation of avocado polygalacturonase	INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES	26	51	2014	10.1016/j.ifset.2014.05.005	0
Errandonea, D.; Kumar, R. S.	High-pressure structural transformations of PbCrO ₄ up to 51.2 GPa: An angle-dispersive synchrotron X-ray diffraction study	MATERIALS RESEARCH BULLETIN	60	206	2014	10.1016/j.materresbull.2014.08.041	1
Suarez, M.; Fernandez, A.; Menendez, J. L.; Nygren, M.; Zhao, Z.; Torrecillas, R.; Pablo, Acosta-Mora; Haro-Gonzalez, P.; Romero, J. J.; Martin, I. R.	Analysis of the upconversion processes of Nd ³⁺ ions in transparent YAG ceramics	CERAMICS INTERNATIONAL	40	15951	2014	10.1016/j.ceramint.2014.07.123	0
Amador Espejo, Genaro Gustavo; Hernandez-Herrero, M. M.; Juan, B.; Trujillo, A. J.	Inactivation of Bacillus spores inoculated in milk by Ultra High Pressure Homogenization	FOOD MICROBIOLOGY	44	204	2014	10.1016/j.fm.2014.06.010	1
Amador Espejo, Genaro Gustavo; Hernandez-Herrero, M M; Juan, B; Trujillo, A J	Inactivation of Bacillus spores inoculated in milk by Ultra High Pressure Homogenization.	Food microbiology	44	204	2014	10.1016/j.fm.2014.06.010	2

Santamaria-Perez, David; Gomis, Oscar; Pereira, Andre L. J.; Vilaplana, Rosario; Popescu, Catalin; Angel Sans, Juan; Javier Manjon, Francisco; Rodriguez-Hernandez, Placida; Munoz, Alfonso; Ursaki, Vladislav V.; Tiginyanu, Ion M.	Structural and Vibrational Study of Pseudocubic CdIn ₂ Se ₄ under Compression	JOURNAL OF PHYSICAL CHEMISTRY C	118	26987	2014	10.1021/jp5077565	0
Haritha, P.; Martin, I. R.; Linganna, K.; Monteseuro, V.; Babu, P.; Leon-Luis, S. F.; Jayasankar, C. K.; Rodriguez-Mendoza, U. R.; Lavin, V.; Venkatramu, V.	Optimizing white light luminescence in Dy ³⁺ -doped Lu ₃ Ga ₅ O ₁₂ nano-garnets	JOURNAL OF APPLIED PHYSICS	116	174308	2014	10.1063/1.4900989	0
Popescu, Catalin; Angel Sans, Juan; Errandonea, Daniel; Segura, Alfredo; Villanueva, Regina; Sapina, Fernando	Compressibility and Structural Stability of Nanocrystalline TiO ₂ Anatase Synthesized from Freeze-Dried Precursors	INORGANIC CHEMISTRY	53	11598	2014	10.1021/ic501571u	0
Montoro, O. R.; Taravillo, M.; San Andres, M.; de la Roja, J. M.; Barrero, A. F.; Arteaga, P.; Baonza, V. G.	Raman spectroscopic study of the formation of fossil resin analogues	JOURNAL OF RAMAN SPECTROSCOPY	45	1230	2014	10.1002/jrs.4588	1
Pena-Alvarez, Miriam; del Corro, Elena; Baonza, Valentin G.; Taravillo, Mercedes	Probing the Stress Effect on the Electronic Structure of Graphite by Resonant Raman Spectroscopy	JOURNAL OF PHYSICAL CHEMISTRY C	118	25132	2014	10.1021/jp505730v	0
Morales-Garcia, A.; Marques, M.; Menendez, J. M.; Franco, R.; Baonza, V. G.; Recio, J. M.	A local topological view of pressure-induced polymorphs in SiO ₂	THEORETICAL CHEMISTRY ACCOUNTS	133	1578	2014	10.1007/s00214-014-1578-2	0
Pereira da Silva, Pedro S.; Martin-Ramos, Pablo; Silva, Manuela Ramos; Lavin, Victor; Chamorro-Posada, Pedro; Martin-Gil, Jesus	X-ray analysis, molecular modeling and NIR-luminescence of erbium(III) 2,4-octanedionate complexes with N,N-donors	POLYHEDRON	81	485	2014	10.1016/j.poly.2014.07.006	1
Martin-Ramos, P.; Ramos Silva, M.; Lahoz, F.; Martin, I. R.; Chamorro-Posada, P.; Eusebio, M. E. S.; Lavin, V.; Martin-Gil, J.	Highly fluorinated erbium(III) complexes for emission in the C-band	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	292	16	2014	10.1016/j.jphotochem.2014.07.008	2
Pereira, A. L. J.; Sans, J. A.; Vilaplana, R.; Gomis, O.; Manjon, F. J.; Rodriguez-Hernandez, P.; Munoz, A.; Popescu, C.; Beltran, A.	Isostructural Second-Order Phase Transition of beta-Bi ₂ O ₃ at High Pressures: An Experimental and Theoretical Study	JOURNAL OF PHYSICAL CHEMISTRY C	118	23189	2014	10.1021/jp507826j	2
Gomis, O.; Santamaria-Perez, D.; Ruiz-Fuertes, J.; Sans, J. A.; Vilaplana, R.; Ortiz, H. M.; Garcia-Domene, B.; Manjon, F. J.; Errandonea, D.; Rodriguez-Hernandez, P.; Munoz, A.; Mollar, M.	High-pressure structural and elastic properties of Ti ₂ O ₃	JOURNAL OF APPLIED PHYSICS	116	133521	2014	10.1063/1.4897241	0
Antonio Barreda-Argueeso, Jose; Nataf, Lucie; Rodriguez-Lazcano, Yamilet; Aguado, Fernando; Gonzalez, Jesus; Valiente, Rafael; Rodriguez, Fernando; Wilhelm, Heribert; Jephcoat, Andrew P.	Bulk and Molecular Compressibilities of Organic-Inorganic Hybrids [(CH ₃) ₄ N](₂)MnX ₄ (X = Cl, Br); Role of Intermolecular Interactions	INORGANIC CHEMISTRY	53	10708	2014	10.1021/ic501854g	1
Povedano, Isabel; Guignon, Berengere; Montoro, Oscar R.; Sanz, Pedro D.; Taravillo, Mercedes; Baonza, Valentin G.	Effects of high pressure on unsaturated fatty acids	HIGH PRESSURE RESEARCH	34	428	2014	10.1080/08957959.2014.970187	0

Guignon, Berengere; Rey-Santos, Ivan; Sanz, Pedro D.	Determination, analysis and prediction of the volumetric behavior of milk at high pressure	FOOD RESEARCH INTERNATIONAL	64	336	2014	10.1016/j.foodres.2014.06.046	0
Vilaplana, R.; Lacomba-Perales, R.; Gomis, O.; Errandonea, D.; Meng, Y.	Quasi-hydrostatic X-ray powder diffraction study of the low- and high-pressure phases of CaWO ₄ up to 28 GPa	SOLID STATE SCIENCES	36	16	2014	10.1016/j.solidstatesciences.2014.07.003	1
Sanchez-Royo, Juan F.; Munoz-Matutano, Guillermo; Brotons-Gisbert, Mauro; Martinez-Pastor, Juan P.; Segura, Alfredo; Cantarero, Andres; Mata, Rafael; Canet-Ferrer, Josep; Tobias, Gerard; Canadell, Enric; Marques-Hueso, Jose; Gerardot, Brian D.	Electronic structure, optical properties, and lattice dynamics in atomically thin indium selenide flakes	NANO RESEARCH	7	1556	2014	10.1007/s12274-014-0516-x	2
Botella, Pablo; Lacomba-Perales, Raul; Errandonea, Daniel; Polian, Alain; Rodriguez-Hernandez, Placida; Munoz, Alfonso	High-Pressure Raman Scattering of CaWO ₄ Up to 46.3 GPa: Evidence of a New High-Pressure Phase	INORGANIC CHEMISTRY	53	9729	2014	10.1021/ic5012555	1
Ruiz-Fuertes, J.; Pellicer-Porres, J.; Segura, A.; Rodriguez-Hernandez, P.; Munoz, A.	Lattice and electronic contributions to the refractive index of CuWO ₄	JOURNAL OF APPLIED PHYSICS	116	103706	2014	10.1063/1.4895125	1
Garcia-Domene, B.; Sans, J. A.; Gomis, O.; Manjon, F. J.; Ortiz, H. M.; Errandonea, D.; Santamaria-Perez, D.; Martinez-Garcia, D.; Vilaplana, R.; Pereira, A. L. J.; Morales-Garcia, A.; Rodriguez-Hernandez, P.; Munoz, A.; Popescu, C.; Segura, A.	Pbca-Type In ₂ O ₃ : The High-Pressure Post-Corundum phase at Room Temperature	JOURNAL OF PHYSICAL CHEMISTRY C	118	20545	2014	10.1021/jp5061599	1
Kettles, Fraser J.; Milway, Victoria A.; Tuna, Floriana; Valiente, Rafael; Thomas, Lynne H.; Wernsdorfer, Wolfgang; Ochsnein, Stefan T.; Murrice, Mark	Exchange Interactions at the Origin of Slow Relaxation of the Magnetization in {TbCu ₃ } and {DyCu ₃ } Single-Molecule Magnets	INORGANIC CHEMISTRY	53	8970	2014	10.1021/ic500885r	5
Judith Mendoza, Nubia; Jimenez Bonaes, Laura; Garcia Baonza, Valentin; Caceres, Mercedes	Local Hydration Pressures in Methanol Aqueous Solution: A Raman Spectroscopy Analysis	JOURNAL OF PHYSICAL CHEMISTRY B	118	9919	2014	10.1021/jp5043975	0
Abbasi-Perez, D.; Menendez, J. M.; Recio, J. M.; Otero-de-la-Roza, A.; del Corro, E.; Taravillo, M.; Baonza, V. G.; Marques, M.	Modeling graphite under stress: Equations of state, vibrational modes, and interlayer friction	PHYSICAL REVIEW B	90	54105	2014	10.1103/PhysRevB.90.054105	0
Morales-Garcia, A.; Soares, Antonio Lenito, Jr.; Dos Santos, Egon C.; de Abreu, Heitor A.; Duarte, Helio A.	First-Principles Calculations and Electron Density Topological Analysis of Covellite (CuS)	JOURNAL OF PHYSICAL CHEMISTRY A	118	5823	2014	10.1021/jp4114706	4
Angel Sans, Juan; Santamaria-Perez, David; Popescu, Catalin; Gomis, Oscar; Javier Manjon, Francisco; Vilaplana, Rosario; Munoz, Alfonso; Rodriguez-Hernandez, Placida; Ursaki, Veaceslav V.; Tiginyanu, Ion M.	Structural and Vibrational Properties of CdAl ₂ S ₄ under High Pressure: Experimental and Theoretical Approach	JOURNAL OF PHYSICAL CHEMISTRY C	118	15363	2014	10.1021/jp5037926	1
Garg, Alka B.; Errandonea, D.; Rodriguez-Hernandez, P.; Lopez-Moreno, S.; Munoz, A.; Popescu, C.	High-pressure structural behaviour of HoVO ₄ : combined XRD experiments and ab initio calculations	JOURNAL OF PHYSICS-CONDENSED MATTER	26	265402	2014	10.1088/0953-8984/26/26/265402	7

Pena Alvarez, Miriam; Mayorga Burrezo, Paula; Kertesz, Miklos; Iwamoto, Takahiro; Yamago, Shigeru; Xia, Jianlong; Jasti, Ramesh; Lopez Navarrete, Juan T; Taravillo, Mercedes; Baonza, Valentin G; Casado, Juan	Properties of sizeable [n]cycloparaphenylenes as molecular models of single-wall carbon nanotubes elucidated by Raman spectroscopy: structural and electron-transfer responses under mechanical stress.	Angewandte Chemie (International ed. in English)	53	7033	2014	10.1002/anie.201400719	0
Pena Alvarez, Miriam; Mayorga Burrezo, Paula; Kertesz, Miklos; Iwamoto, Takahiro; Yamago, Shigeru; Xia, Jianlong; Jasti, Ramesh; Lopez Navarrete, Juan T.; Taravillo, Mercedes; Baonza, Valentin G.; Casado, Juan	Properties of Sizeable [n]Cycloparaphenylenes as Molecular Models of Single-Wall Carbon Nanotubes Elucidated by Raman Spectroscopy: Structural and Electron-Transfer Responses under Mechanical Stress	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	53	7033	2014	10.1002/anie.201400719	5
Hidalgo Baltasar, Eduardo; Taravillo, Mercedes; Sanz, Pedro D.; Baonza, Valentin G.; Guignon, Berengere	Role of Water Structure on the High Pressure Micellization and Phase Transformations of Sodium Dodecanoate Aqueous Solutions	LANGMUIR	30	7343	2014	10.1021/la501659x	0
Hidalgo Baltasar, Eduardo; Taravillo, Mercedes; Sanz, Pedro D; Baonza, Valentin G; Guignon, Berengere	Role of water structure on the high pressure micellization and phase transformations of sodium dodecanoate aqueous solutions.	Langmuir : the ACS journal of surfaces and colloids	30	7343	2014	10.1021/la501659x	0
Monteseguro, V.; Rodriguez-Hernandez, P.; Vilaplana, R.; Manjon, F. J.; Venkatramu, V.; Errandonea, D.; Lavin, V.; Munoz, A.	Lattice Dynamics Study of Nanocrystalline Yttrium Gallium Garnet at High Pressure	JOURNAL OF PHYSICAL CHEMISTRY C	118	13177	2014	10.1021/jp501570c	2
Errandonea, D.; Munoz, A.; Gonzalez-Platas, J.	Comment on "High-pressure x-ray diffraction study of YBO3/Eu3+, GdBO3, and EuBO3: Pressure-induced amorphization in GdBO3" [J. Appl. Phys. 115, 043507 (2014)]	JOURNAL OF APPLIED PHYSICS	115	216101	2014	10.1063/1.4881057	5
Ermakova, Olga; Lopez-Solano, Javier; Minikayev, Roman; Carlson, Stefan; Kaminska, Agata; Glowacki, Michal; Berkowski, Marek; Mujica, Andres; Munoz, Alfonso; Paszkowicz, Wojciech	A combined study of the equation of state of monazite-type lanthanum orthovanadate using in situ high-pressure diffraction and ab initio calculations	ACTA CRYSTALLOGRAPHICA SECTION B-STRUCTURAL SCIENCE CRYSTAL ENGINEERING AND MATERIALS	70	533	2014	10.1107/S2052520614010816	3
Sun, Y. W.; Hernandez, I.; Ghandour, A. J.; Rice, C.; Crowe, I. F.; Halsall, M. P.; Sapelkin, A.; Gonzalez, J.; Rodriguez, F.; Dunstan, D. J.	Resonance Raman spectroscopy of carbon nanotubes: pressure effects on G-mode	HIGH PRESSURE RESEARCH	34	191	2014	10.1080/08957959.2013.878714	0
del Corro, E.; Taravillo, M.; Baonza, V. G.	Stress-dependent correlations for resonant Raman bands in graphite with defects	JOURNAL OF RAMAN SPECTROSCOPY	45	476	2014	10.1002/jrs.4475	1
Pereira, A. L. J.; Gomis, O.; Sans, J. A.; Pellicer-Porres, J.; Manjon, F. J.; Beltran, A.; Rodriguez-Hernandez, P.; Munoz, A.	Pressure effects on the vibrational properties of alpha-Bi2O3: an experimental and theoretical study	JOURNAL OF PHYSICS-CONDENSED MATTER	26	225401	2014	10.1088/0953-8984/26/22/225401	2
Krishnaiah, K. Venkata; Rajeswari, R.; Kumar, K. Upendra; Babu, S. Surendra; Martin, I. R.; Jayasankar, C. K.	Spectroscopy and radiation trapping of Yb3+ ions in lead phosphate glasses	JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER	140	37	2014	10.1016/j.jqsrt.2014.02.003	4

Sabalisk, N. P.; Lopez-Solano, J.; Guzman-Afonso, C.; Santamaria-Perez, D.; Gonzalez-Silgo, C.; Mujica, A.; Munoz, A.; Rodriguez-Hernandez, P.; Radescu, S.; Vendrell, X.; Mestres, L.; Sans, J. A.; Manjon, F. J.	Effect of pressure on La-2(WO4)(3) with a modulated scheelite-type structure	PHYSICAL REVIEW B	89	174112	2014	10.1103/PhysRevB.89.174112	0
Perez-Rodriguez, C.; Martin, L. L.; Leon-Luis, S. F.; Martin, I. R.; Kumar, K. Kiran; Jayasankar, C. K.	Relevance of radiative transfer processes on Nd3+ doped phosphate glasses for temperature sensing by means of the fluorescence intensity ratio technique	SENSORS AND ACTUATORS B-CHEMICAL	195	324	2014	10.1016/j.snb.2014.01.037	4
Babu, P.; Martin, I. R.; Krishnaiah, K. Venkata; Seo, Hyo Jin; Venkatramu, V.; Jayasankar, C. K.; Lavin, V.	Photon avalanche upconversion in Ho3+-Yb3+ co-doped transparent oxyfluoride glass-ceramics	CHEMICAL PHYSICS LETTERS	600	34	2014	10.1016/j.cplett.2014.03.048	2
Rodriguez Gonzalez, Sandra; Nieto-Ortega, Belen; Gonzalez Cano, Rafael C.; Lloveras, Vega; Novoa, Juan J.; Mota, Fernando; Vidal-Gancedo, Jose; Rovira, Concepcio; Veciana, Jaume; del Corro, Elena; Taravillo, Mercedes; Baonza, Valentin G.; Lopez Navarrete, Juan T.; Casado, Juan	Diradicals acting through diamagnetic phenylene vinylene bridges: Raman spectroscopy as a probe to characterize spin delocalization	JOURNAL OF CHEMICAL PHYSICS	140	164903	2014	10.1063/1.4871895	1
Henrique Polisel-Scopel, Fabio; Hernandez-Herrero, Manuela; Guamis, Buenaventura; Ferragut, Victoria	Sterilization and aseptic packaging of soymilk treated by ultra high pressure homogenization	INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES	22	81	2014	10.1016/j.ifset.2014.01.001	4
Ryba-Romanowski, W.; Strzep, A.; Lisiecki, R.; Berkowski, M.; Rodriguez-Rodriguez, H.; Martin, I. R.	Effect of substitution of lutetium by gadolinium on emission characteristics of (LuxGd1-x)(2)SiO5:Sm3+ single crystals	OPTICAL MATERIALS EXPRESS	4	739	2014	10.1364/OME.4.000739	0
Syed, Qamar Abbas; Buffa, Martin; Guamis, Buenaventura; Saldo, Jordi	Effect of Compression and Decompression Rates of High Hydrostatic Pressure on Inactivation of Staphylococcus aureus in Different Matrices	FOOD AND BIOPROCESS TECHNOLOGY	7	1202	2014	10.1007/s11947-013-1146-0	3
Nataf, Lucie; Antonio Barreda-Argueeso, Jose; Valiente, Rafael; Gonzalez, Jesus; Rodriguez, Fernando	Effects of Cu2+ doping and pressure on the exchange-mediated exciton dynamics in one-dimensional N(CH3)(4)MnCl3	PHYSICAL REVIEW B	89	115120	2014	10.1103/PhysRevB.89.115120	0
Imanieh, Mohammad H.; Martin, Inocencio R.; Eftekhari Yekta, Bijan; Gonzalez-Platas, Javier; Hernandez Creus, Alberto	Investigation on Crystallization and Optical Properties of Ca1-xLaxF2+ (x) Glass- Ceramics	JOURNAL OF THE AMERICAN CERAMIC SOCIETY	97	782	2014	10.1111/jace.12816	1
Villegas, Juan C.; Alvarez-Montes, Laura; Rodriguez-Fernandez, Lidia; Gonzalez, Jesus; Valiente, Rafael; Fanarraga, Monica L.	Multiwalled Carbon Nanotubes Hinder Microglia Function Interfering with Cell Migration and Phagocytosis	ADVANCED HEALTHCARE MATERIALS	3	424	2014	10.1002/adhm.201300178	4
Errandonea, D.; Santamaria-Perez, D.; Achary, S. N.; Tyagi, A. K.	Experimental evidence for pressure-driven isostructural and symmetry-breaking phase transitions on Bi14CrO24	SOLID STATE COMMUNICATIONS	182	50	2014	10.1016/j.ssc.2013.12.013	0
Evert-Arriagada, K.; Hernandez-Herrero, M. M.; Guamis, B.; Trujillo, A. J.	Commercial application of high-pressure processing for increasing starter-free fresh cheese shelf-life	LWT-FOOD SCIENCE AND TECHNOLOGY	55	498	2014	10.1016/j.lwt.2013.10.030	1

Santamaria-Perez, David; Gomis, Oscar; Sans, Juan Angel; Ortiz, Henry. M.; Vegas, Angel; Errandonea, Daniel; Ruiz-Fuertes, Javier; Martinez-Garcia, Domingo; Garcia-Domene, Braulio; Pereira, Andre L. J.; Javier Manjon, Francisco; Rodriguez-Hernandez, Placida; Munoz, Alfonso; Piccinelli, Fabio; Bettinelli, Marco; Popescu, Catalin	Compressibility Systematics of Calcite-Type Borates: An Experimental and Theoretical Structural Study on ABO(3) (A = Al, Sc, Fe, and In)	JOURNAL OF PHYSICAL CHEMISTRY C	118	4354	2014	10.1021/jp4124259	4
Lopez, Maria C.; Ortiz, Gregorio F.; Arroyo-de Dompablo, Elena M.; Tirado, Jose L.	An Unnoticed Inorganic Solid Electrolyte: Dilithium Sodium Phosphate with the Nalipoite Structure	INORGANIC CHEMISTRY	53	2310	2014	10.1021/ic4030537	3
Errandonea, D.; Popescu, C.; Achary, S. N.; Tyagi, A. K.; Bettinelli, M.	In situ high-pressure synchrotron X-ray diffraction study of the structural stability in NdVO4 and LaVO4	MATERIALS RESEARCH BULLETIN	50	279	2014	10.1016/j.materresbull.2013.10.047	8
Srivastava, Alok M.; Renero-Lecuna, Carlos; Santamaria-Perez, David; Rodriguez, Fernando; Valiente, Rafael	Pressure-induced Pr ³⁺ P-3(0) luminescence in cubic Y2O3	JOURNAL OF LUMINESCENCE	146	27	2014	10.1016/j.jlumin.2013.09.028	4
Amador-Espejo, G. G.; Suarez-Berencia, A.; Juan, B.; Barcenas, M. E.; Trujillo, A. J.	Effect of moderate inlet temperatures in ultra-high-pressure homogenization treatments on physicochemical and sensory characteristics of milk	JOURNAL OF DAIRY SCIENCE	97	659	2014	10.3168/jds.2013-7245	4
Renero-Lecuna, Carlos; Martin-Rodriguez, Rosa; Gonzalez, Jesus A.; Rodriguez, Fernando; Almonacid, Gloria; Segura, Alfredo; Munoz-Sanjose, Vicente; Gamelin, Daniel R.; Valiente, Rafael	Photoluminescence in ZnO:Co ²⁺ (0.01%-5%) Nanoparticles, Nanowires, Thin Films, and Single Crystals as a Function of Pressure and Temperature: Exploring Electron-Phonon Interactions	CHEMISTRY OF MATERIALS	26	1100	2014	10.1021/cm403371n	2
Paszkwicz, Wojciech; Ermakova, Olga; Lopez-Solano, Javier; Mujica, Andres; Munoz, Alfonso; Minikayev, Roman; Lathe, Christian; Gierlotka, Stanislaw; Nikolaenko, Irina; Dabkowska, Hanna	Equation of state of zircon- and scheelite-type dysprosium orthovanadates: a combined experimental and theoretical study	JOURNAL OF PHYSICS-CONDENSED MATTER	26	25401	2014	10.1088/0953-8984/26/2/025401	4
Gomis, O.; Santamaria-Perez, D.; Vilaplana, R.; Luna, R.; Sans, J. A.; Manjon, F. J.; Errandonea, D.; Perez-Gonzalez, E.; Rodriguez-Hernandez, P.; Munoz, A.; Tiginyanu, I. M.; Ursaki, V. V.	Structural and elastic properties of defect chalcopyrite HgGa2S4 under high pressure	JOURNAL OF ALLOYS AND COMPOUNDS	583	70	2014	10.1016/j.jallcom.2013.08.123	7
Caslin, K.; Kremer, R. K.; Razavi, F. S.; Schulz, A.; Munoz, A.; Pertlik, F.; Liu, J.; Whangbo, M. -H.; Law, J. M.	Characterization of the spin-1/2 linear-chain ferromagnet CuAs2O4	PHYSICAL REVIEW B	89	14412	2014	10.1103/PhysRevB.89.014412	1
Alvarez, Miriam Pena; Burrezo, Paula Mayorga; Iwamoto, Takahiro; Qiu, Lili; Kertesz, Miklos; Taravillo, Mercedes; Baonza, Valentin G.; Navarrete, Juan T. Lopez; Yamago, Shigeru; Casado, Juan	Chameleon-like behaviour of cyclo[n]paraphenylenes in complexes with C-70: on their impressive electronic and structural adaptability as probed by Raman spectroscopy	FARADAY DISCUSSIONS	173	157	2014	10.1039/c4fd00103f	2

Morales-Garcia, A.; Marques, M.; Menendez, J. M.; Santamaria-Perez, D.; Baonza, V. G.; Recio, J. M.	First-principles study of structure and stability in Si-C-O-based materials	ESPA 2012: A CONFERENCE SELECTION FROM THEORETICAL CHEMISTRY ACCOUNTS	5	197	2014	10.1007/s00214-012-1308-6	0
Aguado, F.; Hirai, S.; Redfern, S. A. T.; Smith, R. I.	Thermal expansion of CaIrO ₃ post-perovskite determined by time-of-flight measurements	Journal of Physics Conference Series	549	UNSP 012024	2014	10.1088/1742-6596/549/1/012024	0
Leon-Luis, S. F.; Monteseuro, V.; Rodriguez-Mendoza, U. R.; Rathaiah, M.; Venkatramu, V.; Lozano-Gorriñ, A. D.; Valiente, R.; Munoz, A.; Lavin, V.	Optical nanothermometer based on the calibration of the Stokes and upconverted green emissions of Er ³⁺ ions in Y ₃ Ga ₅ O ₁₂ nano-garnets	RSC ADVANCES	4	57691	2014	10.1039/c4ra11565a	0
Martin-Ramos, P.; Coya, C.; Lavin, V.; Martin, I. R.; Ramos Silva, M.; Pereira Silva, P. S.; Garcia-Velez, M.; Alvarez, A. L.; Martin-Gil, J.	Active layer solution-processed NIR-OLEDs based on ternary erbium(III) complexes with 1,1,1-trifluoro-2,4-pentanedione and different N,N-donors	DALTON TRANSACTIONS	43	18087	2014	10.1039/c4dt01694g	0
Pena Alvarez, Miriam; Mayorga Burrezo, Paula; Iwamoto, Takahiro; Qiu, Lili; Kertesz, Miklos; Taravillo, Mercedes; Baonza, Valentin G; Lopez Navarrete, Juan T; Yamago, Shigeru; Casado, Juan	Chameleon-like behaviour of cyclo[n]paraphenylenes in complexes with C70: on their impressive electronic and structural adaptability as probed by Raman spectroscopy.	Faraday discussions	173	157	2014	10.1039/c4fd00103f	2
Llanos, J.; Castillo, R.; Martin, I. R.; Martin, L. L.; Haro-Gonzalez, P.; Gonzalez-Platas, J.	Energy transfer processes in Eu ³⁺ doped nanocrystalline La ₂ TeO ₆ phosphor	JOURNAL OF LUMINESCENCE	145	553	2014	10.1016/j.jlumin.2013.08.005	2
Imanieh, M. H.; Martin, I. R.; Gonzalez-Platas, J.; Yekta, B. Eftekhari; Marghussian, V. K.; Shakhesi, S.	Behavior of Yb ³⁺ and Er ³⁺ during Heat Treatment in Oxyfluoride Glass Ceramics	JOURNAL OF NANOMATERIALS		171045	2014	10.1155/2014/171045	0
Vallejos, Javier; Brito, Ivan; Cardenas, Alejandro; Bolte, Michael; Llanos, Jaime; Lopez-Rodriguez, Matias; Lavin, Victor; Martin, Inocencio R.	A direct white-light-emitting coordination polymers with tunable green-white photoluminescence by variation of counterion	INORGANIC CHEMISTRY COMMUNICATIONS	39	14	2014	10.1016/j.inoche.2013.09.040	2
Ray, Sudeshna; Fabian Leon-Luis, Sergio; Javier Manjon, Francisco; Alfonso Mollar, Miguel; Gomis, Oscar; Ruyman Rodriguez-Mendoza, Ulises; Agouram, Said; Munoz, Alfonso; Lavin, Victor	Broadband, site selective and time resolved photoluminescence spectroscopic studies of finely size-modulated Y ₂ O ₃ :Eu ³⁺ phosphors synthesized by a complex based precursor solution method	CURRENT APPLIED PHYSICS	14	72	2014	10.1016/j.cap.2013.07.027	0
Errandonea, D.; Kumar, R. S.; Gomis, O.; Manjon, F. J.; Ursaki, V. V.; Tiginyanu, I. M.	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa ₂ Te ₄	JOURNAL OF APPLIED PHYSICS	114	233507	2013	10.1063/1.4851735	2
Barreda-Argueso, J. A.; Lopez-Moreno, S.; Sanz-Ortiz, M. N.; Aguado, F.; Valiente, R.; Gonzalez, J.; Rodriguez, F.; Romero, A. H.; Munoz, A.; Nataf, L.; Baudalet, F.	Pressure-induced phase-transition sequence in CoF ₂ : An experimental and first-principles study on the crystal, vibrational, and electronic properties	PHYSICAL REVIEW B	88	214108	2013	10.1103/PhysRevB.88.214108	0
Pellicer-Porres, J.; Segura, A.; Ferrer-Roca, Ch; Sans, J. A.; Dumas, P.	Investigation of lattice dynamical and dielectric properties of MgO under high pressure by means of mid- and far-infrared spectroscopy	JOURNAL OF PHYSICS-CONDENSED MATTER	25	505902	2013	10.1088/0953-8984/25/50/505902	3
Martin, L. L.; Leon-Luis, S. F.; Perez-Rodriguez, C.; Martin, I. R.; Rodriguez-Mendoza, U. R.; Lavin, V.	High pressure tuning of whispering gallery mode resonances in a neodymium-doped glass microsphere	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS	30	3254	2013	10.1364/JOSAB.30.003254	0

Poliseli-Scopel, Fabio H.; Gallardo-Chacon, Joan-Josep; Juan, Bibiana; Guamis, Buenaventura; Ferragut, Victoria	Characterisation of volatile profile in soymilk treated by ultra high pressure homogenisation	FOOD CHEMISTRY	141	2541	2013	10.1016/j.foodchem.2013.05.067	2
Bonales, L. J.; Munoz-Iglesias, V.; Santamaria-Perez, D.; Caceres, M.; Fernandez-Remolar, D.; Prieto-Ballesteros, O.	Quantitative Raman spectroscopy as a tool to study the kinetics and formation mechanism of carbonates	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	116	26	2013	10.1016/j.saa.2013.06.121	1
Martin-Ramos, Pablo; Miranda, Micael D.; Silva, Manuela Ramos; Eusebio, M. Ermelinda S.; Lavin, Victor; Martin-Gil, Jesus	A new near-IR luminescent erbium(III) complex with potential application in OLED devices	POLYHEDRON	65	187	2013	10.1016/j.poly.2013.08.035	5
Pereira, A. L. J.; Errandonea, D.; Beltran, A.; Gracia, L.; Gomis, O.; Sans, J. A.; Garcia-Domene, B.; Miquel-Veyrat, A.; Manjon, F. J.; Munoz, A.; Popescu, C.	Structural study of alpha-Bi2O3 under pressure	JOURNAL OF PHYSICS-CONDENSED MATTER	25	475402	2013	10.1088/0953-8984/25/47/475402	9
Errandonea, D.; Manjon, F. J.; Munoz, A.; Rodriguez-Hernandez, P.; Panchal, V.; Achary, S. N.; Tyagi, A. K.	High-pressure polymorphs of TbVO4: A Raman and ab initio study	JOURNAL OF ALLOYS AND COMPOUNDS	577	327	2013	10.1016/j.jallcom.2013.06.008	8
Ye, H-Q; Peng, Y.; Li, Z.; Wang, C-C; Zheng, Y-X; Motevalli, M.; Wyatt, P. B.; Gillin, W. P.; Hernandez, I.	Effect of Fluorination on the Radiative Properties of Er3+ Organic Complexes: An Opto-Structural Correlation Study	JOURNAL OF PHYSICAL CHEMISTRY C	117	23970	2013	10.1021/jp4093282	3
Perez-Rodriguez, C.; Imanieh, M. H.; Martin, L. L.; Rios, S.; Martin, I. R.; Yekta, Bijan Eftekhari	Study of the focusing effect of silica microspheres on the upconversion of Er3+-Yb3+ codoped glass ceramics	JOURNAL OF ALLOYS AND COMPOUNDS	576	363	2013	10.1016/j.jallcom.2013.05.222	5
Errandonea, Daniel; Gomis, Oscar; Garcia-Domene, Braulio; Pellicer-Porres, Julio; Katari, Vasundhara; Achary, S. Nagabhusan; Tyagi, Avesh K.; Popescu, Catalin	New Polymorph of InVO4: A High-Pressure Structure with Six-Coordinated Vanadium	INORGANIC CHEMISTRY	52	12790	2013	10.1021/ic402043x	10
Sans, J. A.; Manjon, F. J.; Pereira, A. L. J.; Gomez-Tejedor, J. A.; Monsoriu, J. A.	Oscillations studied with the smartphone ambient light sensor	EUROPEAN JOURNAL OF PHYSICS	34	1349	2013	10.1088/0143-0807/34/6/1349	2
Henrique Poliseli-Scopel, Fabio; Hernandez-Herrero, Manuela; Guamis, Buenaventura; Ferragut, Victoria	Characteristics of soymilk pasteurized by ultra high pressure homogenization (UHPH)	INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES	20	73	2013	10.1016/j.ifset.2013.06.001	3
Jorda, Jose L.; Rey, Fernando; Sastre, German; Valencia, Susana; Palomino, Miguel; Corma, Avelino; Segura, Alfredo; Errandonea, Daniel; Lacomba, Raul; Manjon, Francisco J.; Gomis, Oscar; Kleppe, Annette K.; Jephcoat, Andrew P.; Amboage, Monica; Rodriguez-Velamazán, J. Alberto	Synthesis of a Novel Zeolite through a Pressure-Induced Reconstructive Phase Transition Process	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	52	10458	2013	10.1002/anie.201305230	1
Ibanez, J.; Oliva, R.; Manjon, F. J.; Segura, A.; Yamaguchi, T.; Nanishi, Y.; Cusco, R.; Artus, L.	High-pressure lattice dynamics in wurtzite and rocksalt indium nitride investigated by means of Raman spectroscopy	PHYSICAL REVIEW B	88	115202	2013	10.1103/PhysRevB.88.115202	5

Vijaya, N.; Babu, P.; Venkatramu, V.; Jayasankar, C. K.; Leon-Luis, S. F.; Rodriguez-Mendoza, U. R.; Martin, I. R.; Lavin, V.	Optical characterization of Er ³⁺ -doped zinc fluorophosphate glasses for optical temperature sensors	SENSORS AND ACTUATORS B-CHEMICAL	186	156	2013	10.1016/j.snb.2013.05.081	11
Hernandez-Rodriguez, M. A.; Imanieh, M. H.; Martin, L. L.; Martin, I. R.	Experimental enhancement of the photocurrent in a solar cell using upconversion process in fluorindate glasses exciting at 1480 nm	SOLAR ENERGY MATERIALS AND SOLAR CELLS	116	171	2013	10.1016/j.solmat.2013.04.023	8
Manjon, F. J.; Gomis, O.; Vilaplana, R.; Sans, J. A.; Ortiz, H. M.	Order-disorder processes in adamantine ternary ordered-vacancy compounds	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	250	1496	2013	10.1002/pssb.201248596	5
Vilaplana, R.; Gomis, O.; Manjon, F. J.; Ortiz, H. M.; Perez-Gonzalez, E.; Lopez-Solano, J.; Rodriguez-Hernandez, P.; Munoz, A.; Errandonea, D.; Ursaki, V. V.; Tiginyanu, I. M.	Lattice Dynamics Study of HgGa ₂ Se ₄ at High Pressures	JOURNAL OF PHYSICAL CHEMISTRY C	117	15773	2013	10.1021/jp402493r	4
Evert-Arriagada, K.; Hernandez-Herrero, M. M.; Gallardo-Chacon, J. J.; Juan, B.; Trujillo, A. J.	Effect of high pressure processing on volatile compound profile of a starter-free fresh cheese	INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES	19	73	2013	10.1016/j.ifset.2013.04.001	2
Martin, L. L.; Navarro-Urrios, D.; Ferrarese-Lupi, F.; Perez-Rodriguez, C.; Martin, I. R.; Montserrat, J.; Dominguez, C.; Garrido, B.; Capuj, N.	Laser emission in Nd ³⁺ doped barium-titanium-silicate microspheres under continuous and chopped wave pumping in a non-coupled pumping scheme	LASER PHYSICS	23	75801	2013	10.1088/1054-660X/23/7/075801	1
Vilaplana, R.; Gomis, O.; Perez-Gonzalez, E.; Ortiz, H. M.; Manjon, F. J.; Rodriguez-Hernandez, P.; Munoz, A.; Alonso-Gutierrez, P.; Sanjuan, M. L.; Ursaki, V. V.; Tiginyanu, I. M.	High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa ₂ Se ₄	JOURNAL OF APPLIED PHYSICS	113	233501	2013	10.1063/1.4810854	3
Santamaria-Perez, David; Bandiello, Enrico; Errandonea, Daniel; Ruiz-Fuertes, Javier; Gomis, Oscar; Angel Sans, Juan; Javier Manjon, Francisco; Rodriguez-Hernandez, Placida; Munoz, Alfonso	Phase Behavior of Ag ₂ CrO ₄ under Compression: Structural, Vibrational, and Optical Properties	JOURNAL OF PHYSICAL CHEMISTRY C	117	12239	2013	10.1021/jp401524s	4
Rodriguez-Mendoza, U. R.; Leon-Luis, S. F.; Munoz-Santiuste, J. E.; Jaque, D.; Lavin, V.	Nd ³⁺ -doped Ca ₃ Ga ₂ Ge ₃ O ₁₂ garnet: A new optical pressure sensor	JOURNAL OF APPLIED PHYSICS	113	213517	2013	10.1063/1.4809217	1
Perez-Rodriguez, Carla; Rios, Susana; Martin, Inocencio R.	Enhanced energy upconversion and super-resolved focused spot generation in Tm ³⁺ -Yb ³⁺ codoped glass using silica microspheres	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS	30	1392	2013	10.1364/JOSAB.30.001392	1
Gomis, Oscar; Vilaplana, Rosario; Javier Manjon, Francisco; Santamaria-Perez, David; Errandonea, Daniel; Perez-Gonzalez, Eduardo; Lopez-Solano, Javier; Rodriguez-Hernandez, Placida; Munoz, Alfonso; Tiginyanu, Ion Mihail; Ursaki, Veaceslav Vladimir	Crystal structure of HgGa ₂ Se ₄ under compression	MATERIALS RESEARCH BULLETIN	48	2128	2013	10.1016/j.materresbull.2013.02.037	8

Pedruzea, Esteban; Segura, Alfredo; Abargues, Rafael; Bailach, Jose Bosch; Chervin, Jean Claude; Martinez-Pastor, Juan P.	The effect of quantum size confinement on the optical properties of PbSe nanocrystals as a function of temperature and hydrostatic pressure	NANOTECHNOLOGY	24	205701	2013	10.1088/0957-4484/24/20/205701	9
Nuccio, L.; Willis, M.; Schulz, L.; Fratini, S.; Messina, F.; D'Amico, M.; Pratt, F. L.; Lord, J. S.; McKenzie, I.; Loth, M.; Purushothaman, B.; Anthony, J.; Heeney, M.; Wilson, R. M.; Hernandez, I.; Cannas, M.; Sedlak, K.; Kreouzis, T.; Gillin, W. P.; Bernhard, C.; Drew, A. J.	Importance of Spin-Orbit Interaction for the Electron Spin Relaxation in Organic Semiconductors	PHYSICAL REVIEW LETTERS	110	216602	2013	10.1103/PhysRevLett.110.216602	13
Meng, Ying Shirley; Elena Arroyo-de Dompablo, M.	Recent Advances in First Principles Computational Research of Cathode Materials for Lithium-Ion Batteries	ACCOUNTS OF CHEMICAL RESEARCH	46	1171	2013	10.1021/ar2002396	8
Monteseguro, V.; Rodriguez-Hernandez, P.; Lavin, V.; Manjon, F. J.; Munoz, A.	Electronic and elastic properties of yttrium gallium garnet under pressure from ab initio studies	JOURNAL OF APPLIED PHYSICS	113	183505	2013	10.1063/1.4804133	3
Errandonea, Daniel; Achary, S. Nagabhusan; Pellicer-Porres, Julio; Tyagi, Avesh K.	Pressure-Induced Transformations in PrVO ₄ and SmVO ₄ and Isolation of High-Pressure Metastable Phases	INORGANIC CHEMISTRY	52	5464	2013	10.1021/ic400376g	13
del Corro, E.; Izquierdo, J. G.; Gonzalez, J.; Taravillo, M.; Baonza, V. G.	3D Raman mapping of uniaxially loaded 6H-SiC crystals	JOURNAL OF RAMAN SPECTROSCOPY	44	758	2013	10.1002/jrs.4252	4
Vilaplana, R.; Gomis, O.; Perez-Gonzalez, E.; Ortiz, H. M.; Manjon, F. J.; Rodriguez-Hernandez, P.; Munoz, A.; Alonso-Gutierrez, P.; Sanjuan, M. L.; Ursaki, V. V.; Tiginyanu, I. M.	Thermally activated cation ordering in ZnGa ₂ Se ₄ single crystals studied by Raman scattering, optical absorption, and ab initio calculations	JOURNAL OF PHYSICS-CONDENSED MATTER	25	165802	2013	10.1088/0953-8984/25/16/165802	5
Velazquez-Estrada, R. M.; Hernandez-Herrero, M. M.; Ruefer, C. E.; Guamis-Lopez, B.; Roig-Sagues, A. X.	Influence of ultra high pressure homogenization processing on bioactive compounds and antioxidant activity of orange juice	INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES	18	89	2013	10.1016/j.ifset.2013.02.005	6
Manjon, F. J.; Vilaplana, R.; Gomis, O.; Perez-Gonzalez, E.; Santamaria-Perez, D.; Marin-Borras, V.; Segura, A.; Gonzalez, J.; Rodriguez-Hernandez, P.; Munoz, A.; Drasar, C.; Kucek, V.; Munoz-Sanjose, V.	High-pressure studies of topological insulators Bi ₂ Se ₃ , Bi ₂ Te ₃ , and Sb ₂ Te ₃	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	250	669	2013	10.1002/pssb.201200672	11
Vijaya, R.; Venkatramu, V.; Babu, P.; Jayasankar, C. K.; Rodriguez-Mendoza, U. R.; Lavin, V.	Spectroscopic properties of Sm ³⁺ ions in phosphate and fluorophosphate glasses	JOURNAL OF NON-CRYSTALLINE SOLIDS	365	85	2013	10.1016/j.jnoncrysol.2013.01.030	4
Errandonea, D.; Gracia, L.; Lacomba-Perales, R.; Polian, A.; Chervin, J. C.	Compression of scheelite-type SrMoO ₄ under quasi-hydrostatic conditions: Redefining the high-pressure structural sequence	JOURNAL OF APPLIED PHYSICS	113	123510	2013	10.1063/1.4798374	12
Garcia-Saiz, Abel; de Pedro, Imanol; Blanco, Jesus A.; Gonzalez, Jesus; Rodriguez Fernandez, Jesus	Pressure Effects on Emim[FeCl ₄], a Magnetic Ionic Liquid with Three-Dimensional Magnetic Ordering	JOURNAL OF PHYSICAL CHEMISTRY B	117	3198	2013	10.1021/jp3114623	6
Pellicer-Porres, J.; Segura, A.; Ferrer-Roca, Ch; Polian, A.; Munsch, P.; Kim, D.	XRD and XAS structural study of CuAlO ₂ under high pressure	JOURNAL OF PHYSICS-CONDENSED MATTER	25	115406	2013	10.1088/0953-8984/25/11/115406	3

Vilaplana, R.; Robledillo, M.; Gomis, O.; Sans, J. A.; Manjon, F. J.; Perez-Gonzalez, E.; Rodriguez-Hernandez, P.; Munoz, A.; Tiginyanu, I. M.; Ursaki, V. V.	Vibrational study of HgGa ₂ S ₄ under high pressure	JOURNAL OF APPLIED PHYSICS	113	93512	2013	10.1063/1.4794096	6
Abbas Syed, Qamar; Buffa, Martin; Guamis, Buenaventura; Saldo, Jordi	Lethality and injuring the effect of compression and decompression rates of high hydrostatic pressure on Escherichia coli O157:H7 in different matrices	HIGH PRESSURE RESEARCH	33	64	2013	10.1080/08957959.2013.767898	1
Gomis, O.; Vilaplana, R.; Manjon, F. J.; Santamaria-Perez, D.; Errandonea, D.; Perez-Gonzalez, E.; Lopez-Solano, J.; Rodriguez-Hernandez, P.; Munoz, A.; Tiginyanu, I. M.; Ursaki, V. V.	High-pressure study of the structural and elastic properties of defect-chalcopyrite HgGa ₂ Se ₄	JOURNAL OF APPLIED PHYSICS	113	73510	2013	10.1063/1.4792495	7
Ghandour, A. J.; Crowe, I. F.; Proctor, J. E.; Sun, Y. W.; Halsall, M. P.; Hernandez, I.; Sapelkin, A.; Dunstan, D. J.	Pressure coefficients of Raman modes of carbon nanotubes resolved by chirality: Environmental effect on graphene sheet	PHYSICAL REVIEW B	87	85416	2013	10.1103/PhysRevB.87.085416	3
Valencia-Flores, Dora C.; Hernandez-Herrero, Manuela; Guamis, Buenaventura; Ferragut, Victoria	Comparing the Effects of Ultra-High-Pressure Homogenization and Conventional Thermal Treatments on the Microbiological, Physical, and Chemical Quality of Almond Beverages	JOURNAL OF FOOD SCIENCE	78	E199	2013	10.1111/1750-3841.12029	4
Gonzalez-Garcia, P.; Urones-Garrote, E.; del Corro, E.; Avila-Brande, D.; Otero-Diaz, L. C.	The production of carbon particles of different shapes produced by the chlorination of Cr(C ₅ H ₅) ₂	CARBON	52	90	2013	10.1016/j.carbon.2012.09.009	3
Guzman-Afonso, C.; Gonzalez-Silgo, C.; Torres, M. E.; Matesanz, E.; Mujica, A.	Structural anomalies related to changes in the conduction mechanisms of alpha-Sm-2(MoO ₄) ₃	JOURNAL OF PHYSICS-CONDENSED MATTER	25	35902	2013	10.1088/0953-8984/25/3/035902	1
Pellicer-Porres, J.; Segura, A.; Martinez-Criado, G.; Rodriguez-Mendoza, U. R.; Lavin, V.	Formation of nanostructures in Eu ³⁺ doped glass-ceramics: an XAS study	JOURNAL OF PHYSICS-CONDENSED MATTER	25	25303	2013	10.1088/0953-8984/25/2/025303	0
Hebishy, Essam; Buffa, Martin; Guamis, Buenaventura; Trujillo, Antonio-Jose	Stability of Sub-Micron Oil-in-Water Emulsions Produced by Ultra High Pressure Homogenization and Sodium Caseinate as Emulsifier	Chemical Engineering Transactions	32	1813	2013	10.3303/CET1332303	2
Achary, S. N.; Errandonea, D.; Munoz, A.; Rodriguez-Hernandez, P.; Manjon, F. J.; Krishna, P. S. R.; Patwe, S. J.; Grover, V.; Tyagia, A. K.	Experimental and theoretical investigations on the polymorphism and metastability of BiPO ₄	DALTON TRANSACTIONS	42	14999	2013	10.1039/c3dt51823j	10
Martin-Ramos, Pablo; Pereira da Silva, Pedro S.; Lavin, Victor; Martin, Inocencio R.; Lahoz, Fernando; Chamorro-Posada, Pedro; Silva, Manuela Ramos; Martin-Gil, Jesus	Structure and NIR-luminescence of ytterbium(III) beta-diketonate complexes with 5-nitro-1,10-phenanthroline ancillary ligand: assessment of chain length and fluorination impact	DALTON TRANSACTIONS	42	13516	2013	10.1039/c3dt51376a	9
Martin-Ramos, P.; Lavin, V.; Ramos Silva, M.; Martin, I. R.; Lahoz, F.; Chamorro-Posada, P.; Paixao, J. A.; Martin-Gil, J.	Novel erbium(III) complexes with 2,6-dimethyl-3,5-heptanedione and different N,N-donor ligands for ormosil and PMMA matrices doping	JOURNAL OF MATERIALS CHEMISTRY C	1	5701	2013	10.1039/c3tc30686k	12

de Pedro, I.; Garcia-Saiz, A.; Gonzalez, J.; Ruiz de Larramendi, I.; Rojo, T.; Afonso, Carlos A. M.; Simeonov, Svilen P.; Waerenborgh, J. C.; Blanco, Jesus A.; Ramajo, B.; Rodriguez Fernandez, J.	Magnetic ionic plastic crystal: choline[FeCl ₄]	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	15	12724	2013	10.1039/c3cp50749a	5
Leon-Luis, Sergio F.; Rodriguez-Mendoza, Ulises R.; Martin, Inocencio R.; Lalla, Emmanuel; Lavin, Victor	Effects of Er ³⁺ concentration on thermal sensitivity in optical temperature fluorotellurite glass sensors	SENSORS AND ACTUATORS B-CHEMICAL	176	1167	2013	10.1016/j.snb.2012.09.067	8
Hernandez, Ignacio; Zheng, You-Xuan; Motevalli, Majid; Tan, Rendy H. C.; Gillin, William P.; Wyatt, Peter B.	Efficient sensitized emission in Yb(III) pentachlorotropolonate complexes	CHEMICAL COMMUNICATIONS	49	1933	2013	10.1039/c3cc38610d	10
Morales-Garcia, A.; Marques, M.; Menendez, J. M.; Santamaria-Perez, D.; Baonza, V. G.; Recio, J. M.	First-principles study of structure and stability in Si-C-O-based materials	THEORETICAL CHEMISTRY ACCOUNTS	132	1308	2013	10.1007/s00214-012-1308-6	2
Garcia-Domene, B.; Ortiz, H. M.; Gomis, O.; Sans, J. A.; Manjon, F. J.; Munoz, A.; Rodriguez-Hernandez, P.; Achary, S. N.; Errandonea, D.; Martinez-Garcia, D.; Romero, A. H.; Singhal, A.; Tyagi, A. K.	High-pressure lattice dynamical study of bulk and nanocrystalline In ₂ O ₃	JOURNAL OF APPLIED PHYSICS	112	123511	2012	10.1063/1.4769747	9
Imanieh, Mohammad Hasan; Yekta, Bijan Eftekhari; Marghussian, Vahak; Martin Benenzuela, Inocencio Rafael; Hernandez Creus, Alberto; Shakhesi, Saeed; Eslami, Esmaeil	Effect of alumina content and heat treatment on microstructure and upconversion emission of Er ³⁺ ions in oxyfluoride glass-ceramics	JOURNAL OF RARE EARTHS	30	1228	2012	10.1016/S1002-0721(12)60211-7	3
Imanieh, Mohammad H.; Martin, Inocencio R.; Yekta, Bijan Eftekhari; Marghussian, Vahak K.; Shakhesi, Saeed	Improved Cooperative Emission in Ytterbium-Doped Oxyfluoride Glass-Ceramics Containing CaF ₂ Nanocrystals	JOURNAL OF THE AMERICAN CERAMIC SOCIETY	95	3827	2012	10.1111/jace.12012	6
Navarro-Urrios, Daniel; Baselga, Marta; Ferrarese Lupi, Federico; Martin, Leopoldo L.; Perez-Rodriguez, Carla; Lavin, Victor; Martin, Inocencio R.; Garrido, Blas; Capuj, Nestor E.	Local characterization of rare-earth-doped single microspheres by combined microtransmission and microphotoluminescence techniques	JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B- OPTICAL PHYSICS	29	3293	2012		1
Vaudagna, S. R.; Gonzalez, C. B.; Guignon, B.; Aparicio, C.; Otero, L.; Sanz, P. D.	The effects of high hydrostatic pressure at subzero temperature on the quality of ready-to-eat cured beef carpaccio	MEAT SCIENCE	92	575	2012	10.1016/j.meatsci.2012.06.002	9
Bhosale, J.; Ramdas, A. K.; Burger, A.; Munoz, A.; Romero, A. H.; Cardona, M.; Lauck, R.; Kremer, R. K.	Temperature dependence of band gaps in semiconductors: Electron-phonon interaction	PHYSICAL REVIEW B	86	195208	2012	10.1103/PhysRevB.86.195208	18
Vilaplana, R.; Gomis, O.; Manjon, F. J.; Rodriguez-Hernandez, P.; Munoz, A.; Errandonea, D.; Achary, S. N.; Tyagi, A. K.	Raman scattering study of bulk and nanocrystalline PbMoO ₄ at high pressures	JOURNAL OF APPLIED PHYSICS	112	103510	2012	10.1063/1.4765717	5
Martinez-Criado, Gema; Homs, Alejandro; Alen, Benito; Sans, Juan A.; Segura-Ruiz, Jaime; Molina-Sanchez, Alejandro; Susini, Jean; Yoo, Jinkyong; Yi, Gyu-Chul	Probing Quantum Confinement within Single Core-Multishell Nanowires	NANO LETTERS	12	5829	2012	10.1021/nl303178u	10

Leon-Luis, Sergio F.; Rodriguez-Mendoza, Ulises R.; Haro-Gonzalez, Patricia; Martin, Inocencio R.; Lavin, Victor	Role of the host matrix on the thermal sensitivity of Er ³⁺ luminescence in optical temperature sensors	SENSORS AND ACTUATORS B-CHEMICAL	174	176	2012	10.1016/j.snb.2012.08.019	15
Gilliland, S. J.; Sans, J. A.; Sanchez-Royo, J. F.; Almonacid, G.; Garcia-Domene, B.; Segura, A.; Tobias, G.; Canadell, E.	Role of p-d and s-d interactions in the electronic structure and band gap of Zn _{1-x} M _x O (M = Cr, Mn, Fe, Co, Ni, and Cu): Photoelectron and optical spectroscopy and first-principles band structure calculations	PHYSICAL REVIEW B	86	155203	2012	10.1103/PhysRevB.86.155203	9
Marquina, Jesus; Flahaut, Emmanuel; Gonzalez, Jesus	High-pressure optical absorption studies of double-walled carbon nanotubes	PHYSICA STATUS SOLIDI-RAPID RESEARCH LETTERS	6	382	2012	10.1002/pssr.201206280	1
del Corro, Elena; Otero de la Roza, Alberto; Taravillo, Mercedes; Baonza, Valentin G.	Raman modes and Gruneisen parameters of graphite under compressive biaxial stress	CARBON	50	4600	2012	10.1016/j.carbon.2012.05.046	10
Zamora, A.; Ferragut, V.; Guamis, B.; Trujillo, A. J.	Changes in the surface protein of the fat globules during ultra-high pressure homogenisation and conventional treatments of milk	FOOD HYDROCOLLOIDS	29	135	2012	10.1016/j.foodhyd.2012.02.012	9
Santamaria-Perez, D.; Kumar, Ravhi S.; Dos Santos-Garcia, A. J.; Errandonea, D.; Chulia-Jordan, R.; Saez-Puche, R.; Rodriguez-Hernandez, P.; Munoz, A.	High-pressure transition to the post-barite phase in BaCrO ₄ hashemite	PHYSICAL REVIEW B	86	94116	2012	10.1103/PhysRevB.86.094116	5
Lopez-Moreno, S.; Errandonea, D.	Ab initio prediction of pressure-induced structural phase transitions of CrVO ₄ -type orthophosphates	PHYSICAL REVIEW B	86	104112	2012	10.1103/PhysRevB.86.104112	9
Nataf, Lucie; Rodriguez, Fernando; Valiente, Rafael	Pressure-induced Co ²⁺ photoluminescence quenching in MgAl ₂ O ₄	PHYSICAL REVIEW B	86	125123	2012	10.1103/PhysRevB.86.125123	1
Ruiz-Fuertes, J.; Lopez-Moreno, S.; Lopez-Solano, J.; Errandonea, D.; Segura, A.; Lacomba-Perales, R.; Munoz, A.; Radescu, S.; Rodriguez-Hernandez, P.; Gospodinov, M.; Nagornaya, L. L.; Tu, C. Y.	Pressure effects on the electronic and optical properties of AWO(4) wolframites (A = Cd, Mg, Mn, and Zn): The distinctive behavior of multiferroic MnWO ₄	PHYSICAL REVIEW B	86	125202	2012	10.1103/PhysRevB.86.125202	28
Zamora, A.; Trujillo, A. J.; Armaforte, E.; Waldron, D. S.; Kelly, A. L.	Effect of fat content and homogenization under conventional or ultra-high-pressure conditions on interactions between proteins in rennet curds	JOURNAL OF DAIRY SCIENCE	95	4796	2012	10.3168/jds.2012-5351	4
Gomis, O.; Sans, J. A.; Lacomba-Perales, R.; Errandonea, D.; Meng, Y.; Chervin, J. C.; Polian, A.	Complex high-pressure polymorphism of barium tungstate	PHYSICAL REVIEW B	86	54121	2012	10.1103/PhysRevB.86.054121	25
Rodriguez-Fernandez, Lidia; Valiente, Rafael; Gonzalez, Jesus; Villegas, Juan C.; Fanarraga, Monica L.	Multiwalled Carbon Nanotubes Display Microtubule Biomimetic Properties in Vivo, Enhancing Microtubule Assembly and Stabilization	ACS NANO	6	6614	2012	10.1021/nn302222m	17
Ibanez, J.; Segura, A.; Garcia-Domene, B.; Oliva, R.; Manjon, F. J.; Yamaguchi, T.; Nanishi, Y.; Artus, L.	High-pressure optical absorption in InN: Electron density dependence in the wurtzite phase and reevaluation of the indirect band gap of rocksalt InN	PHYSICAL REVIEW B	86	35210	2012	10.1103/PhysRevB.86.035210	2

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Venkatramu, V.; Leon Luis, S. F.; Lozano-Gorrin, A. D.; Jyothi, L.; Babu, P.; Rodriguez-Mendoza, U. R.; Jayasankar, C. K.; Munoz-Santiuste, Juan E.; Lavin, V.	Structural and Luminescence Properties of Ho ³⁺ /Nb ³⁺ -Doped Lu ₃ Ga ₅ O ₁₂ Nano-Garnets for Phosphor Applications	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	12	4495	2012	10.1166/jnn.2012.6179	3
Ouahrani, T.; Menendez, J. M.; Marques, M.; Contreras-Garcia, J.; Baonza, V. G.; Recio, J. M.	Local pressures in Zn chalcogenide polymorphs	EPL	98	56002	2012	10.1209/0295-5075/98/56002	7
Segura, A.; Panchal, V.; Sanchez-Royo, J. F.; Marin-Borras, V.; Munoz-Sanjose, V.; Rodriguez-Hernandez, P.; Munoz, A.; Perez-Gonzalez, E.; Manjon, F. J.; Gonzalez, J.	Trapping of three-dimensional electrons and transition to two-dimensional transport in the three-dimensional topological insulator Bi ₂ Se ₃ under high pressure	PHYSICAL REVIEW B	85	195139	2012	10.1103/PhysRevB.85.195139	10
Pereira, A. L. J.; Gracia, L.; Santamaria-Perez, D.; Vilaplana, R.; Manjon, F. J.; Errandonea, D.; Nalin, M.; Beltran, A.	Structural and vibrational study of cubic Sb ₂ O ₃ under high pressure	PHYSICAL REVIEW B	85	174108	2012	10.1103/PhysRevB.85.174108	10
Zamora, Anna; Ferragut, Victoria; Miquel Quevedo, Joan; Guamis, Buenaventura; Trujillo, Antonio-Jose	Ultra-high pressure homogenisation of milk: technological aspects of cheese-making and microbial shelf life of a starter-free fresh cheese	JOURNAL OF DAIRY RESEARCH	79	168	2012	10.1017/S0022029912000052	3
Evert-Arriagada, K.; Hernandez-Herrero, M. M.; Juan, B.; Guamis, B.; Trujillo, A. J.	Effect of high pressure on fresh cheese shelf-life	JOURNAL OF FOOD ENGINEERING	110	248	2012	10.1016/j.jfoodeng.2011.05.011	11
Leon-Luis, S. F.; Munoz-Santiuste, J. E.; Lavin, V.; Rodriguez-Mendoza, U. R.	Optical pressure and temperature sensor based on the luminescence properties of Nd ³⁺ ion in a gadolinium scandium gallium garnet crystal	OPTICS EXPRESS	20	0	2012	10.1364/OE.20.010393	7
Ruiz-Fuertes, J.; Segura, A.; Rodriguez, F.; Errandonea, D.; Sanz-Ortiz, M. N.	Anomalous High-Pressure Jahn-Teller Behavior in CuWO ₄	PHYSICAL REVIEW LETTERS	108	166402	2012	10.1103/PhysRevLett.108.166402	12
Gomez-Salces, Susana; Aguado, Fernando; Rodriguez, Fernando; Valiente, Rafael; Gonzalez, Jesus; Haumont, Raphael; Kreisel, Jens	Effect of pressure on the band gap and the local FeO ₆ environment in BiFeO ₃	PHYSICAL REVIEW B	85	144109	2012	10.1103/PhysRevB.85.144109	5
Guignon, Berengere; Aparicio, Cristina; Sanz, Pedro D.; Otero, Laura	Orange juice pVT-properties for high pressure processing and modeling purposes: Importance of soluble solids concentration	FOOD RESEARCH INTERNATIONAL	46	83	2012	10.1016/j.foodres.2011.12.002	3
Ermakova, O.; Paszkowicz, W.; Lopez-Solano, J.; Munoz, A.; Dabkowska, H.	Experimental and Theoretical Study of Zircon and Scheelite Phases of DyVO ₄	ACTA PHYSICA POLONICA A	121	920	2012		2
Poliseli-Scopel, Fabio H.; Hernandez-Herrero, Manuela; Guamis, Buenaventura; Ferragut, Victoria	Comparison of ultra high pressure homogenization and conventional thermal treatments on the microbiological, physical and chemical quality of soymilk	LWT-FOOD SCIENCE AND TECHNOLOGY	46	42	2012	10.1016/j.lwt.2011.11.004	25
Aguado, Fernando; Rodriguez, Fernando; Valiente, Rafael; Itie, Jean-Paul; Hanfland, Michael	Pressure effects on Jahn-Teller distortion in perovskites: The roles of local and bulk compressibilities	PHYSICAL REVIEW B	85	100101	2012	10.1103/PhysRevB.85.100101	6

Martin-Rodriguez, R.; Gonzalez, J.; Valiente, R.; Aguado, F.; Santamaria-Perez, D.; Rodriguez, F.	Reversibility of the zinc-blende to rock-salt phase transition in cadmium sulfide nanocrystals	JOURNAL OF APPLIED PHYSICS	111	63516	2012	10.1063/1.3697562	2
Baddour-Hadjean, R.; Smirnov, M. B.; Smirnov, K. S.; Kazimirov, V. Yu; Gallardo-Amores, J. M.; Amador, U.; Arroyo-de Dompablo, M. E.; Pereira-Ramos, J. P.	Lattice Dynamics of beta-V2O5: Raman Spectroscopic Insight into the Atomistic Structure of a High-Pressure Vanadium Pentoxide Polymorph	INORGANIC CHEMISTRY	51	3194	2012	10.1021/ic202651b	10
Errandonea, D.; Kumar, R. S.; Achary, S. N.; Gomis, O.; Manjon, F. J.; Shukla, R.; Tyagi, A. K.	New high-pressure phase and equation of state of Ce2Zr2O8	JOURNAL OF APPLIED PHYSICS	111	53519	2012	10.1063/1.3692807	4
Saracibar, A.; Van der Ven, A.; Arroyo-de Dompablo, M. E.	Crystal Structure, Energetics, And Electrochemistry of Li2FeSiO4 Polymorphs from First Principles Calculations	CHEMISTRY OF MATERIALS	24	495	2012	10.1021/cm202818u	33
del Corro, Elena; Taravillo, Mercedes; Baonza, Valentin G.	Nonlinear strain effects in double-resonance Raman bands of graphite, graphene, and related materials	PHYSICAL REVIEW B	85	33407	2012	10.1103/PhysRevB.85.033407	9
Stavrou, E.; Tatsi, A.; Raptis, C.; Efthimiopoulos, I.; Syassen, K.; Munoz, A.; Rodriguez-Hernandez, P.; Lopez-Solano, J.; Hanfland, M.	Effects of pressure on the structure and lattice dynamics of TmPO4: Experiments and calculations	PHYSICAL REVIEW B	85	24117	2012	10.1103/PhysRevB.85.024117	8
Bandiello, E.; Errandonea, D.; Martinez-Garcia, D.; Santamaria-Perez, D.; Manjon, F. J.	Effects of high-pressure on the structural, vibrational, and electronic properties of monazite-type PbCrO4	PHYSICAL REVIEW B	85	24108	2012	10.1103/PhysRevB.85.024108	25
Garcia-Baonza, Valentin; Rull, Fernando; Dubessy, Jean	Raman Spectroscopy of Gases, Water and other Geological Fluids	European Mineralogical Union Notes in Mineralogy	12	279	2012	10.1180/EMU-notes.12.8	1
Douglas, Fraser J.; MacLaren, Donald A.; Renero-Lecuna, Carlos; Peacock, Robert D.; Valiente, Rafael; Murrie, Mark	Self-assembly of ultra-thin lanthanide oxide nanowires via surfactant-mediated imperfect oriented attachment of nanoparticles	CRYSTENGCOMM	14	7110	2012	10.1039/c2ce25990g	7
Gomez-Salces, Susana; Aguado, Fernando; Valiente, Rafael; Rodrigues, Fernando	Unraveling the Coordination Geometry of Copper(II) Ions in Aqueous Solution through Absorption Intensity	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	51	9335	2012	10.1002/anie.201202033	4
Venkatramu, Vemula; Leon-Luis, Sergio F.; Rodriguez-Mendoza, Ulises R.; Monteseuro, Virginia; Manjon, Francisco J.; Lozano-Gorrin, Antonio D.; Valiente, Rafael; Navarro-Urrios, Daniel; Jayasankar, C. K.; Munoz, Alfonso; Lavin, Victor	Synthesis, structure and luminescence of Er3+-doped Y3Ga5O12 nano-garnets	JOURNAL OF MATERIALS CHEMISTRY	22	13788	2012	10.1039/c2jm31386c	12
Santamaria-Perez, D.; Chulia-Jordan, R.	Compression of mineral barite, BaSO4: a structural study	HIGH PRESSURE RESEARCH	32	81	2012	10.1080/08957959.2011.635143	6
Otero, L.; Sanz, P.; Guignon, B.; Sanz, P. D.	Pressure-shift nucleation: A potential tool for freeze concentration of fluid foods	INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES	13	86	2012	10.1016/j.ifset.2011.11.003	6
Velazquez-Estrada, R. M.; Hernandez-Herrero, M. M.; Guamis-Lopez, B.; Roig-Sagues, A. X.	Impact of ultra high pressure homogenization on pectin methylesterase activity and microbial characteristics of orange juice: A comparative study against conventional heat pasteurization	INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES	13	100	2012	10.1016/j.ifset.2011.09.001	11

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Errandonea, D.; Kumar, R. S.; Achary, S. N.; Tyagi, A. K.	In situ high-pressure synchrotron x-ray diffraction study of CeVO ₄ and TbVO ₄ up to 50 GPa	PHYSICAL REVIEW B	84	224121	2011	10.1103/PhysRevB.84.224121	22
Martin, L. L.; Perez-Rodriguez, C.; Haro-Gonzalez, P.; Martin, I. R.	Whispering gallery modes in a glass microsphere as a function of temperature	OPTICS EXPRESS	19	25792	2011	10.1364/OE.19.025792	7
Marquina, J.; Power, C. H.; Broto, J. M.; Flahaut, E.; Gonzalez, J.	Anharmonic properties of Raman modes in double wall carbon nanotubes	REVISTA MEXICANA DE FISICA	57	510	2011		2
Amghouz, Zakariae; Garcia-Granda, Santiago; Garcia, Jose R.; Clearfield, Abraham; Valiente, Rafael	Organic-Inorganic Hybrids Assembled from Lanthanide and 1,4-Phenylenebis(phosphonate)	CRYSTAL GROWTH & DESIGN	11	5289	2011	10.1021/cg2008254	14
Hidalgo Baltasar, Eduardo; Taravillo, Mercedes; Baonza, Valentin G.; Sanz, Pedro D.; Guignon, Berengere	Speed of Sound in Liquid Water from (253.15 to 348.15) K and Pressures from (0.1 to 700) MPa	JOURNAL OF CHEMICAL AND ENGINEERING DATA	56	4800	2011	10.1021/je200668a	7
Vilaplana, Rosario; Santamaria-Perez, D.; Gomis, O.; Manjon, F. J.; Gonzalez, J.; Segura, A.; Munoz, A.; Rodriguez-Hernandez, P.; Perez-Gonzalez, E.; Marin-Borras, V.; Munoz-Sanjose, V.; Drasar, C.; Kucek, V.	Structural and vibrational study of Bi ₂ Se ₃ under high pressure	PHYSICAL REVIEW B	84	184110	2011	10.1103/PhysRevB.84.184110	31
Gomis, O.; Vilaplana, R.; Manjon, F. J.; Rodriguez-Hernandez, P.; Perez-Gonzalez, E.; Munoz, A.; Kucek, V.; Drasar, C.	Lattice dynamics of Sb ₂ Te ₃ at high pressures	PHYSICAL REVIEW B	84	174305	2011	10.1103/PhysRevB.84.174305	23
Leon-Luis, Sergio F.; Rodriguez-Mendoza, Ulises R.; Lalla, Emmanuel; Lavin, Victor	Temperature sensor based on the Er ³⁺ green upconverted emission in a fluorotellurite glass	SENSORS AND ACTUATORS B-CHEMICAL	158	208	2011	10.1016/j.snb.2011.06.005	40
Longo, Valeria M.; Gracia, Lourdes; Stroppa, Daniel G.; Cavalcante, Laecio S.; Orlandi, Marcelo; Ramirez, Antonio J.; Leite, Edson R.; Andres, Juan; Beltran, Armando; Varela, Jose A.; Longo, Elson	A Joint Experimental and Theoretical Study on the Nanomorphology of CaWO ₄ Crystals	JOURNAL OF PHYSICAL CHEMISTRY C	115	20113	2011	10.1021/jp205764s	23
Sanz-Ortiz, Marta N.; Rodriguez, Fernando; Rodriguez, Jesus; Demazeau, Gerard	p Optical and magnetic characterisation of Co ³⁺ and Ni ³⁺ in LaAlO ₃ : interplay between the spin state and Jahn-Teller effect	JOURNAL OF PHYSICS-CONDENSED MATTER	23	415501	2011	10.1088/0953-8984/23/41/415501	0
Segura, A.; Sanchez-Royo, J. F.; Garcia-Domene, B.; Almonacid, G.	Current underestimation of the optical gap and Burstein-Moss shift in CdO thin films: A consequence of extended misuse of alpha(2)-versus-h nu plots	APPLIED PHYSICS LETTERS	99	151907	2011	10.1063/1.3651338	8
Ruiz-Fuertes, J.; Friedrich, A.; Pellicer-Porres, J.; Errandonea, D.; Segura, A.; Morgenroth, W.; Haussuehl, E.; Tu, C. -Y.; Polian, A.	Structure Solution of the High-Pressure Phase of CuWO ₄ and Evolution of the Jahn-Teller Distortion	CHEMISTRY OF MATERIALS	23	4220	2011	10.1021/cm201592h	12

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Pellicer-Porres, J.; Segura, A.; Panchal, V.; Polian, A.; Decremps, F.; Dumas, P.	High-pressure study of the infrared active modes in wurtzite and rocksalt ZnO	PHYSICAL REVIEW B	84	125202	2011	10.1103/PhysRevB.84.125202	4
Lopez-Moreno, S.; Rodriguez-Hernandez, P.; Munoz, A.; Romero, A. H.; Errandonea, D.	First-principles calculations of electronic, vibrational, and structural properties of scheelite EuWO ₄ under pressure	PHYSICAL REVIEW B	84	64108	2011	10.1103/PhysRevB.84.064108	9
Errandonea, D.; Gracia, L.; Beltran, A.; Vegas, A.; Meng, Y.	Pressure-induced phase transitions in AgClO ₄	PHYSICAL REVIEW B	84	64103	2011	10.1103/PhysRevB.84.064103	13
Gracia, Lourdes; Longo, Valeria M.; Cavalcante, Laecio S.; Beltran, Armando; Avansi, Waldir; Li, Maximo S.; Mastelaro, Valmor R.; Varela, Jose A.; Longo, Elson; Andres, Juan	Presence of excited electronic state in CaWO ₄ crystals provoked by a tetrahedral distortion: An experimental and theoretical investigation	JOURNAL OF APPLIED PHYSICS	110	43501	2011	10.1063/1.3615948	18
Lacomba-Perales, R.; Errandonea, D.; Segura, A.; Ruiz-Fuertes, J.; Rodriguez-Hernandez, P.; Radescu, S.; Lopez-Solano, J.; Mujica, A.; Munoz, A.	A combined high-pressure experimental and theoretical study of the electronic band-structure of scheelite-type AWO(4) (A = Ca, Sr, Ba, Pb) compounds	JOURNAL OF APPLIED PHYSICS	110	43703	2011	10.1063/1.3622322	22
Panchal, V.; Errandonea, D.; Segura, A.; Rodriguez-Hernandez, P.; Munoz, A.; Lopez-Moreno, S.; Bettinelli, M.	The electronic structure of zircon-type orthovanadates: Effects of high-pressure and cation substitution	JOURNAL OF APPLIED PHYSICS	110	43723	2011	10.1063/1.3626060	38
Renner-Lecuna, C.; Martin-Rodriguez, R.; Valiente, R.; Gonzalez, J.; Rodriguez, F.; Kraemer, K. W.; Guedel, H. U.	Origin of the High Upconversion Green Luminescence Efficiency in beta-NaYF ₄ :2%Er ³⁺ ,20%Yb ³⁺	CHEMISTRY OF MATERIALS	23	3442	2011	10.1021/cm2004227	53
Arroyo-de Dompablo, M. E.; Morales-Garcia, A.; Taravillo, M.	DFT plus U calculations of crystal lattice, electronic structure, and phase stability under pressure of TiO ₂ polymorphs	JOURNAL OF CHEMICAL PHYSICS	135	54503	2011	10.1063/1.3617244	27
Santamaria-Perez, D.; Gracia, L.; Garbarino, G.; Beltran, A.; Chulia-Jordan, R.; Gomis, O.; Errandonea, D.; Ferrer-Roca, Ch.; Martinez-Garcia, D.; Segura, A.	High-pressure study of the behavior of mineral barite by x-ray diffraction	PHYSICAL REVIEW B	84	54102	2011	10.1103/PhysRevB.84.054102	30
Suarez-Jacobo, Angela; Ruefer, Corinna E.; Gervilla, Ramon; Guamis, Buenaventura; Roig-Sagues, Artur X.; Saldo, Jordi	Influence of ultra-high pressure homogenisation on antioxidant capacity, polyphenol and vitamin content of clear apple juice	FOOD CHEMISTRY	127	447	2011	10.1016/j.foodchem.2010.12.152	25
Panchal, V.; Lopez-Moreno, S.; Santamaria-Perez, D.; Errandonea, D.; Manjon, F. J.; Rodriguez-Hernandez, P.; Munoz, A.; Achary, S. N.; Tyagi, A. K.	Zircon to monazite phase transition in CeVO ₄ : X-ray diffraction and Raman-scattering measurements	PHYSICAL REVIEW B	84	24111	2011	10.1103/PhysRevB.84.024111	27
Ibanez, J.; Manjon, F. J.; Segura, A.; Oliva, R.; Cusco, R.; Vilaplana, R.; Yamaguchi, T.; Nanishi, Y.; Artus, L.	High-pressure Raman scattering in wurtzite indium nitride	APPLIED PHYSICS LETTERS	99	11908	2011	10.1063/1.3609327	9
Haro-Gonzalez, P.; Martin, I. R.; Lahoz, F.; Capuj, N. E.	Optical gain by upconversion in Tm-Yb oxyfluoride glass ceramic	APPLIED PHYSICS B-LASERS AND OPTICS	104	237	2011	10.1007/s00340-010-4283-4	0

Martin-Rodriguez, R.; Valiente, R.; Rodriguez, F.; Bettinelli, M.	Temperature and pressure dependence of the optical properties of Cr ³⁺ -doped Gd ₃ Ga ₅ O ₁₂ nanoparticles	NANOTECHNOLOGY	22	265707	2011	10.1088/0957-4484/22/26/265707	5
Ruiz-Fuertes, J.; Errandonea, D.; Lopez-Moreno, S.; Gonzalez, J.; Gomis, O.; Vilaplana, R.; Manjon, F. J.; Munoz, A.; Rodriguez-Hernandez, P.; Friedrich, A.; Tupitsyna, I. A.; Nagornaya, L. L.	High-pressure Raman spectroscopy and lattice-dynamics calculations on scintillating MgWO ₄ : Comparison with isomorphous compounds	PHYSICAL REVIEW B	83	214112	2011	10.1103/PhysRevB.83.214112	19
Rivera-Lopez, F.; Babu, P.; Basavapoornima, Ch.; Jayasankar, C. K.; Lavin, V.	Efficient Nd ³⁺ -> Yb ³⁺ energy transfer processes in high phonon energy phosphate glasses for 1.0 μm Yb ³⁺ laser	JOURNAL OF APPLIED PHYSICS	109	123514	2011	10.1063/1.3580475	9
Zhu, Qiang; Oganov, Artem R.; Salvado, Miguel A.; Pertierra, Pilar; Lyakhov, Andriy O.	Denser than diamond: Ab initio search for superdense carbon allotropes (vol 83, 193410, 2011)	PHYSICAL REVIEW B	83	239902	2011	10.1103/PhysRevB.83.239902	0
Johnstone, Russell D. L.; Allan, David; Lennie, Alistair; Pidcock, Elna; Valiente, Rafael; Rodriguez, Fernando; Gonzalez, Jesus; Warren, John; Parsons, Simon	The effect of pressure on the crystal structure of bianthrone	ACTA CRYSTALLOGRAPHICA SECTION B-STRUCTURAL SCIENCE	67	226	2011	10.1107/S0108768111009657	2
Rodriguez-Mendoza, U. R.; Lalla, E. A.; Caceres, J. M.; Rivera-Lopez, F.; Leon-Luis, S. F.; Lavin, V.	Optical characterization, 1.5 μm emission and IR-to-visible energy upconversion in Er ³⁺ -doped fluorotellurite glasses	JOURNAL OF LUMINESCENCE	131	1239	2011	10.1016/j.jlumin.2011.02.020	25
Zhu, Qiang; Oganov, Artem R.; Salvado, Miguel A.; Pertierra, Pilar; Lyakhov, Andriy O.	Denser than diamond: Ab initio search for superdense carbon allotropes	PHYSICAL REVIEW B	83	193410	2011	10.1103/PhysRevB.83.193410	49
Serrano, J.; Bosak, A.; Krisch, M.; Manjon, F. J.; Romero, A. H.; Garro, N.; Wang, X.; Yoshikawa, A.; Kuball, M.	InN Thin Film Lattice Dynamics by Grazing Incidence Inelastic X-Ray Scattering	PHYSICAL REVIEW LETTERS	106	205501	2011	10.1103/PhysRevLett.106.205501	16
Romero, A. H.; Cardona, M.; Kremer, R. K.; Lauck, R.; Siegle, G.; Hoch, C.; Munoz, A.	Electronic and phononic properties of the chalcopyrite CuGaS ₂	PHYSICAL REVIEW B	83	195208	2011	10.1103/PhysRevB.83.195208	14
Babu, P.; Jang, Kyoung Hyuk; Kim, Eun Sik; Vijaya, R.; Jayasankar, C. K.; Lavin, Victor; Seo, Hyo Jin	Local field dependent fluorescence properties of Eu ³⁺ ions in a fluorometaphosphate laser glass	JOURNAL OF NON-CRYSTALLINE SOLIDS	357	2139	2011	10.1016/j.jnoncrysol.2011.01.033	11
Venkatramu, V.; Vijaya, R.; Leon-Luis, S. F.; Babu, P.; Jayasankar, C. K.; Lavin, V.; Dhareshwar, L. J.	Optical properties of Yb ³⁺ -doped phosphate laser glasses	JOURNAL OF ALLOYS AND COMPOUNDS	509	5084	2011	10.1016/j.jallcom.2011.01.148	15
Gracia, L.; Beltran, A.; Andres, J.	A Theoretical Study on the Pressure-Induced Phase Transitions in the Inverse Spinel Structure Zn ₂ SnO ₄	JOURNAL OF PHYSICAL CHEMISTRY C	115	7740	2011	10.1021/jp2006606	12
Errandonea, D.; Kumar, R. S.; Ruiz-Fuertes, J.; Segura, A.; Haussuehl, E.	High-pressure study of substrate material ScAlMgO ₄	PHYSICAL REVIEW B	83	144104	2011	10.1103/PhysRevB.83.144104	8
Errandonea, D.; Kumar, R.; Lopez-Solano, J.; Rodriguez-Hernandez, P.; Munoz, A.; Rabie, M. G.; Saez Puche, R.	Experimental and theoretical study of structural properties and phase transitions in YAsO ₄ and YCrO ₄	PHYSICAL REVIEW B	83	134109	2011	10.1103/PhysRevB.83.134109	20
Aparicio, C.; Otero, L.; Sanz, P. D.; Guignon, B.	Specific volume and compressibility measurements of tomato paste at moderately high pressure as a function of temperature	JOURNAL OF FOOD ENGINEERING	103	251	2011	10.1016/j.jfoodeng.2010.10.021	5

Radescu, S.; Mujica, A.; Lopez-Solano, J.; Needs, R. J.	Theoretical study of pressure-driven phase transitions in HgSe and HgTe	PHYSICAL REVIEW B	83	94107	2011	10.1103/PhysRevB.83.094107	5
del Corro, E.; Tarauillo, M.; Gonzalez, J.; Baonza, V. G.	Raman characterization of carbon materials under non-hydrostatic conditions	CARBON	49	973	2011	10.1016/j.carbon.2010.09.064	9
Martin, L. L.; Haro-Gonzalez, P.; Martin, I. R.; Navarro-Urrios, D.; Alonso, D.; Perez-Rodriguez, C.; Jaque, D.; Capuj, N. E.	Whispering-gallery modes in glass microspheres: optimization of pumping in a modified confocal microscope	OPTICS LETTERS	36	615	2011	10.1364/OL.36.000615	8
Contreras-Garcia, J.; Recio, J. M.	Electron delocalization and bond formation under the ELF framework	THEORETICAL CHEMISTRY ACCOUNTS	128	411	2011	10.1007/s00214-010-0828-1	8
Errandonea, D.; Santamaria-Perez, D.; Achary, S. N.; Tyagi, A. K.; Gall, P.; Gougeon, P.	High-pressure x-ray diffraction study of CdMoO ₄ and EuMoO ₄	JOURNAL OF APPLIED PHYSICS	109	43510	2011	10.1063/1.3553850	15
Power, Ch.; Calderon, E.; Gonzalez, J.; Chervin, J. C.	Dependence with the pressure of the refractive index of AgGaS ₂	REVISTA MEXICANA DE FISICA	57	35	2011		0
Babu, P.; Jang, Kyoung Hyuk; Rao, Ch. Srinivasa; Shi, Liang; Jayasankar, C. K.; Lavin, Victor; Seo, Hyo Jin	White light generation in Dy ³⁺ -doped oxyfluoride glass and transparent glass-ceramics containing CaF ₂ nanocrystals	OPTICS EXPRESS	19	1836	2011	10.1364/OE.19.001836	40
Lopez-Moreno, S.; Rodriguez-Hernandez, P.; Munoz, A.; Romero, A. H.; Manjon, F. J.; Errandonea, D.; Rusu, E.; Ursaki, V. V.	Lattice dynamics of ZnAl ₂ O ₄ and ZnGa ₂ O ₄ under high pressure	ANNALEN DER PHYSIK	523	157	2011	10.1002/andp.201000096	8
Otero, L.; Sanz, P.; Guignon, B.; Sanz, P. D.	HIGH-PRESSURE SHIFT FREEZING: A POTENTIAL TOOL TO IMPROVE CRYOCONCENTRATION PROCESSES	23RD IIR INTERNATIONAL CONGRESS OF REFRIGERATION	23	114	2011		0
Lopez-Solano, J.; Rodriguez-Hernandez, P.; Munoz, A.; Santamaria-Perez, D.; Manjon, F. J.; Ray, S.; Gomis, O.; Mollar, M.; Panchal, V.; Errandonea, D.	High-pressure theoretical and experimental study of HgWO ₄	HIGH PRESSURE RESEARCH	31	58	2011	10.1080/08957959.2010.521735	1
Panchal, V.; Segura, A.; Pellicer-Porres, J.	Low-cost set-up for Fourier-transform infrared spectroscopy in diamond anvil cell from 4000 to 400 cm ⁻¹)	HIGH PRESSURE RESEARCH	31	445	2011	10.1080/08957959.2011.594049	3
Gonzalez-Perez, S.; Martin, I. R.; Jaque, D.; Haro-Gonzalez, P.; Capuj, N.	Control of the local devitrification on oxyfluoride glass doped with Er ³⁺ ions under diode laser irradiation	JOURNAL OF APPLIED PHYSICS	108	103103	2010	10.1063/1.3504857	2
Rojas, D. P.; Fernandez Barquin, L.; Rodriguez Fernandez, J.; Rodriguez Fernandez, L.; Gonzalez, J.	Phonon softening on the specific heat of nanocrystalline metals	NANOTECHNOLOGY	21	445702	2010	10.1088/0957-4484/21/44/445702	3
Errandonea, D.; Santamaria-Perez, D.; Grover, V.; Achary, S. N.; Tyagi, A. K.	High-pressure x-ray diffraction study of bulk and nanocrystalline PbMoO ₄	JOURNAL OF APPLIED PHYSICS	108	73518	2010	10.1063/1.3493048	15
Gonzalez-Navarrete, P.; Gracia, L.; Calatayud, M.; Andres, J.	Density Functional Theory Study of the Oxidation of Methanol to Formaldehyde on a Hydrated Vanadia Cluster	JOURNAL OF COMPUTATIONAL CHEMISTRY	31	2493	2010	10.1002/jcc.2.1543	8
Guignon, Berengere; Aparicio, Cristina; Sanz, Pedro D.	Volumetric Properties of Pressure-Transmitting Fluids up to 350 MPa: Water, Ethanol, Ethylene Glycol, Propylene Glycol, Castor Oil, Silicon Oil, and Some of Their Binary Mixture	JOURNAL OF CHEMICAL AND ENGINEERING DATA	55	3017	2010	10.1021/je9010568	6

Guignon, Berengere; Aparicio, Cristina; Sanz, Pedro D.	Specific Volume of Liquid Water from (253 to 323) K and Pressures up to 350 MPa by Volumetric Measurements	JOURNAL OF CHEMICAL AND ENGINEERING DATA	55	3338	2010	10.1021/je100083w	8
Cardona, M.; Kremer, R. K.; Siegle, G.; Munoz, A.; Romero, A. H.; Schmidt, M.	Electronic and phononic properties of cinnabar: Ab initio calculations and some experimental results	PHYSICAL REVIEW B	82	85210	2010	10.1103/PhysRevB.82.085210	8
Martin-Rodriguez, R.; Valiente, R.; Rodriguez, F.; Piccinelli, F.; Speghini, A.; Bettinelli, M.	Temperature dependence and temporal dynamics of Mn ²⁺ upconversion luminescence sensitized by Yb ³⁺ in codoped LaMgAl ₁₁ O ₁₉	PHYSICAL REVIEW B	82	75117	2010	10.1103/PhysRevB.82.075117	11
Belandria, Edgar; Millot, Marius; Broto, Jean-Marc; Flahaut, Emmanuel; Rodriguez, Fernando; Valiente, Rafael; Gonzalez, Jesus	Pressure dependence of Raman modes in double wall carbon nanotubes filled with 1D Tellurium	CARBON	48	2566	2010	10.1016/j.carbon.2010.03.036	4
Errandonea, Daniel	The melting curve of ten metals up to 12 GPa and 1600 K	JOURNAL OF APPLIED PHYSICS	108	33517	2010	10.1063/1.3468149	37
Gomez, Susana; Urra, Inigo; Valiente, Rafael; Rodriguez, Fernando	Spectroscopic study of Cu ²⁺ and Cu ⁺ ions in high-transmission glass. Electronic structure and Cu ²⁺ /Cu ⁺ concentrations	JOURNAL OF PHYSICS-CONDENSED MATTER	22	295505	2010	10.1088/0953-8984/22/29/295505	2
Manjon, F. J.; Lopez-Solano, J.; Ray, S.; Gomis, O.; Santamaria-Perez, D.; Mollar, M.; Panchal, V.; Errandonea, D.; Rodriguez-Hernandez, P.; Munoz, A.	High-pressure structural and lattice dynamical study of HgWO ₄	PHYSICAL REVIEW B	82	35212	2010	10.1103/PhysRevB.82.035212	7
Nanot, Sebastien; Millot, Marius; Raquet, Bertrand; Broto, Jean-Marc; Magrez, Arnaud; Gonzalez, Jesus	Doping dependence of the G-band Raman spectra of an individual multiwall carbon nanotube	PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES	42	2466	2010	10.1016/j.physe.2010.06.006	3
Ruiz-Fuertes, Javier; Karandikar, Amol; Boehler, Reinhard; Errandonea, Daniel	Microscopic evidence of a flat melting curve of tantalum	PHYSICS OF THE EARTH AND PLANETARY INTERIORS	181	69	2010	10.1016/j.pepi.2010.03.013	13
Gracia, L.; Andres, J.; Longo, V. M.; Varela, J. A.; Longo, E.	A theoretical study on the photoluminescence of SrTiO ₃	CHEMICAL PHYSICS LETTERS	493	141	2010	10.1016/j.cplett.2010.05.041	18
Carro, P.; Hernandez Creus, A.; Munoz, A.; Salvarezza, R. C.	On the Thermodynamic Stability of alpha,omega-Alkanedithiols Self-Assembled Mono layers on Unreconstructed and Reconstructed Au(111)	LANGMUIR	26	9589	2010	10.1021/la100167b	9
Gilliland, S. G.; Sans, J. A.; Sanchez-Royo, J. F.; Almonacid, G.; Segura, A.	Charge-transfer absorption band in Zn _{1-x} MxO (M: Co, Mn) investigated by means of photoconductivity, Ga doping, and optical measurements under pressure	APPLIED PHYSICS LETTERS	96	241902	2010	10.1063/1.3454243	8
Santamaria-Perez, David; Mukherjee, Goutam Dev; Schwager, Beate; Boehler, Reinhard	High-pressure melting curve of helium and neon: Deviations from corresponding states theory	PHYSICAL REVIEW B	81	214101	2010	10.1103/PhysRevB.81.214101	7
Kowalska, D.; Haro-Gonzalez, P.; Martin, I. R.; Caceres, J. M.	Analysis of the optical properties of Er ³⁺ -doped strontium barium niobate nanocrystals using time-resolved laser spectroscopy	APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING	99	771	2010	10.1007/s00339-010-5716-y	1
Power, Ch.; Molina, I.; Chacon, L.; Gonzalez, J.; Perez-Kuroki, A. Jagui; Chervin, J. C.	High pressure optic absorption of TLGaSe ₂	REVISTA MEXICANA DE FISICA	56	217	2010		0

Ibanez, J.; Segura, A.; Manjon, F. J.; Artus, L.; Yamaguchi, T.; Nanishi, Y.	Electronic structure of wurtzite and rocksalt InN investigated by optical absorption under hydrostatic pressure	APPLIED PHYSICS LETTERS	96	201903	2010	10.1063/1.3431291	9
Manjon, F. J.; Gomis, O.; Rodriguez-Hernandez, P.; Perez-Gonzalez, E.; Munoz, A.; Errandonea, D.; Ruiz-Fuertes, J.; Segura, A.; Fuentes-Cabrera, M.; Tiginyanu, I. M.; Ursaki, V. V.	Nonlinear pressure dependence of the direct band gap in adamantite ordered-vacancy compounds	PHYSICAL REVIEW B	81	195201	2010	10.1103/PhysRevB.81.195201	14
Millot, Marius; Broto, Jean-Marc; George, Sylvie; Gonzalez, Jesus; Segura, Alfredo	Electronic structure of indium selenide probed by magnetoabsorption spectroscopy under high pressure	PHYSICAL REVIEW B	81	205211	2010	10.1103/PhysRevB.81.205211	6
Serrano, J.; Manjon, F. J.; Romero, A. H.; Ivanov, A.; Cardona, M.; Lauck, R.; Bosak, A.; Krisch, M.	Phonon dispersion relations of zinc oxide: Inelastic neutron scattering and ab initio calculations	PHYSICAL REVIEW B	81	174304	2010	10.1103/PhysRevB.81.174304	22
Ruiz-Fuertes, J.; Lopez-Moreno, S.; Errandonea, D.; Pellicer-Porres, J.; Lacomba-Perales, R.; Segura, A.; Rodriguez-Hernandez, P.; Munoz, A.; Romero, A. H.; Gonzalez, J.	High-pressure phase transitions and compressibility of wolframite-type tungstates	JOURNAL OF APPLIED PHYSICS	107	83506	2010	10.1063/1.3380848	30
Millot, Marius; Tena-Zaera, Ramon; Munoz-Sanjose, Vicente; Broto, Jean-Marc; Gonzalez, Jesus	Anharmonic effects in ZnO optical phonons probed by Raman spectroscopy	APPLIED PHYSICS LETTERS	96	152103	2010	10.1063/1.3387843	11
Gonzalez-Navarrete, P.; Gracia, L.; Calatayud, M.; Andres, J.	Unraveling the Mechanisms of the Selective Oxidation of Methanol to Formaldehyde in Vanadia Supported on Titania Catalyst	JOURNAL OF PHYSICAL CHEMISTRY C	114	6039	2010	10.1021/jp911528q	10
Lacomba-Perales, R.; Martinez-Garcia, D.; Errandonea, D.; Le Godec, Y.; Philippe, J.; Le Marchand, G.; Chervin, J. C.; Polian, A.; Munoz, A.; Lopez-Solano, J.	Experimental and theoretical investigation of the stability of the monoclinic BaWO ₄ -II phase at high pressure and high temperature	PHYSICAL REVIEW B	81	144117	2010	10.1103/PhysRevB.81.144117	14
Lopez-Solano, J.; Rodriguez-Hernandez, P.; Munoz, A.; Gomis, O.; Santamaria-Perez, D.; Errandonea, D.; Manjon, F. J.; Kumar, R. S.; Stavrou, E.; Raptis, C.	Theoretical and experimental study of the structural stability of TbPO ₄ at high pressures	PHYSICAL REVIEW B	81	144126	2010	10.1103/PhysRevB.81.144126	20
Sanz-Ortiz, M. N.; Rodriguez, F.; Valiente, R.	Time-resolved spectroscopy in LiCaAlF ₆ doped with Cr ³⁺ : dynamical Jahn-Teller effect and thermal shifts associated with the T-4(2) excited state	JOURNAL OF PHYSICS-CONDENSED MATTER	22	125502	2010	10.1088/0953-8984/22/12/125502	1
Venkatramu, V.; Babu, P.; Martin, I. R.; Lavin, V.; Munoz-Santiuste, Juan E.; Troester, Th.; Sievers, W.; Wortmann, G.; Jayasankar, C. K.	Role of the local structure and the energy trap centers in the quenching of luminescence of the Tb ³⁺ ions in fluoroborate glasses: A high pressure study	JOURNAL OF CHEMICAL PHYSICS	132	114505	2010	10.1063/1.3352631	6
Pellicer-Porres, J.; Segura, A.; Munoz, A.; Polian, A.; Congeduti, A.	Bond length compressibility in hard ReB ₂ investigated by x-ray absorption under high pressure	JOURNAL OF PHYSICS-CONDENSED MATTER	22	45701	2010	10.1088/0953-8984/22/4/045701	12

Cardona, M.; Kremer, R. K.; Lauck, R.; Siegle, G.; Munoz, A.; Romero, A. H.; Schindler, A.	Electronic, vibrational, and thermodynamic properties of ZnS with zinc-blende and rocksalt structure	PHYSICAL REVIEW B	81	75207	2010	10.1103/PhysRevB.81.075207	16
Lacomba-Perales, R.; Errandonea, D.; Meng, Y.; Bettinelli, M.	High-pressure stability and compressibility of APO(4) (A = La, Nd, Eu, Gd, Er, and Y) orthophosphates: An x-ray diffraction study using synchrotron radiation	PHYSICAL REVIEW B	81	64113	2010	10.1103/PhysRevB.81.064113	48
Manjon, F. J.; Rodriguez-Hernandez, P.; Munoz, A.; Romero, A. H.; Errandonea, D.; Syassen, K.	Lattice dynamics of YVO4 at high pressures	PHYSICAL REVIEW B	81	75202	2010	10.1103/PhysRevB.81.075202	22
Millot, Marius; Broto, Jean-Marc; Gonzalez, Jesus; Rodriguez, Fernando	Trigonal field acting at the Cr3+ E-2 states in ruby from magneto-optical measurements under high pressure	PHYSICAL REVIEW B	81	75120	2010	10.1103/PhysRevB.81.075120	3
Otero, L.; Guignon, B.; Aparicio, C.; Sanz, P. D.	Modeling Thermophysical Properties of Food Under High Pressure	CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION	50	344	2010	10.1080/10408390802248817	5
Galloway, Kyle W.; Moggach, Stephen A.; Parois, Pascal; Lennie, Alistair R.; Warren, John E.; Brechin, Euan K.; Peacock, Robert D.; Valiente, Rafael; Gonzalez, Jesus; Rodriguez, Fernando; Parsons, Simon; Murrie, Mark	Pressure-induced switching in a copper(II) citrate dimer	CRYSTENGCOMM	12	2516	2010	10.1039/c001376e	16
Saib, S.; Bouarissa, N.; Rodriguez-Hernandez, P.; Munoz, A.	Ab initio lattice dynamics and piezoelectric properties of MgS and MgSe alkaline earth chalcogenides	EUROPEAN PHYSICAL JOURNAL B	73	185	2010	10.1140/epjb/e2009-00426-6	15
Rodriguez, Fernando	JAHN-TELLER SYSTEMS AT HIGH PRESSURE	HIGH-PRESSURE CRYSTALLOGRAPHY: FROM FUNDAMENTAL PHENOMENA TO TECHNOLOGICAL APPLICATIONS		215	2010	10.1007/978-90-481-9258-8_19	1
Aguado, F.; Rodriguez, F.; Lennie, A. R.	High-pressure structural evolution of the perovskite NH4MnCl3	Journal of Physics Conference Series	215	12009	2010	10.1088/1742-6596/215/1/012009	0
Ruiz-Fuertes, J.; Sanz-Ortiz, M. N.; Gonzalez, J.; Rodriguez, F.; Segura, A.; Errandonea, D.	Optical absorption and Raman spectroscopy of CuWO4	Journal of Physics Conference Series	215	12048	2010	10.1088/1742-6596/215/1/012048	7
Suarez-Jacobo, A.; Gervilla, R.; Guamis, B.; Roig-Sagues, A. X.; Saldo, J.	Effect of UHPH on indigenous microbiota of apple juice A preliminary study of microbial shelf-life	INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY	136	261	2010	10.1016/j.ijfoodmicro.2009.11.011	24
Lopez-Moreno, S.; Romero, A. H.; Munoz, A.; Schwingenschloegl, U.	First-principles description of atomic gold chains on Ge(001)	PHYSICAL REVIEW B	81	41415	2010	10.1103/PhysRevB.81.041415	9
Sanz-Ortiz, M. N.; Rodriguez, F.; Hernandez, I.; Valiente, R.; Kueck, S.	Origin of the E-2 \leftrightarrow T-4(2) Fano resonance in Cr3+-doped LiCaAlF6: Pressure-induced excited-state crossover	PHYSICAL REVIEW B	81	45114	2010	10.1103/PhysRevB.81.045114	10
Otero, L.; Sanz, P. D.; Guignon, B.; Aparicio, C.	Experimental determination of the amount of ice instantaneously formed in high-pressure shift freezing	JOURNAL OF FOOD ENGINEERING	95	670	2009	10.1016/j.jfoodeng.2009.06.036	9

Rodriguez-Lazcano, Y.; Nataf, L.; Rodriguez, F.	Pressure-induced transformation from isolated MnX ₄ (T-d) to exchange-coupled MnX ₆ (O-h) in A(2)MnX(4) (X: Cl, Br) crystals. Structural correlations by time-resolved spectroscopy	JOURNAL OF LUMINESCENCE	129	2000	2009	10.1016/j.jlumin.2009.04.077	0
Cardona, M.; Kremer, R. K.; Lauck, R.; Siegle, G.; Munoz, A.; Romero, A. H.	Electronic, vibrational, and thermodynamic properties of metacinnabar beta-HgS, HgSe, and HgTe	PHYSICAL REVIEW B	80	195204	2009	10.1103/PhysRevB.80.195204	28
Valiente, R.; Rodriguez, F.; Gonzalez, J.; Guedel, H. U.; Martin-Rodriguez, R.; Nataf, L.; Sanz-Ortiz, M. N.; Kraemer, K.	High pressure optical spectroscopy of Ce ³⁺ -doped Cs ₂ NaLuCl ₆	CHEMICAL PHYSICS LETTERS	481	149	2009	10.1016/j.cplett.2009.09.059	5
Aparicio, C.; Resa, P.; Elvira, L.; Molina-Garcia, A. D.; Martino, M.; Sanz, P. D.	Assessment of starch gelatinization by ultrasonic and calorimetric techniques	JOURNAL OF FOOD ENGINEERING	94	295	2009	10.1016/j.jfoodeng.2009.03.021	10
Radescu, S.; Mujica, A.; Needs, R. J.	Soft-phonon instability in zincblende HgSe and HgTe under moderate pressure: Ab initio pseudopotential calculations	PHYSICAL REVIEW B	80	144110	2009	10.1103/PhysRevB.80.144110	1
Sanz-Ortiz, Marta N.; Rodriguez, Fernando	Photoluminescence properties of Jahn-Teller transition-metal ions	JOURNAL OF CHEMICAL PHYSICS	131	124512	2009	10.1063/1.3223459	6
Errandonea, D.; Kumar, Ravhi. S.; Gracia, L.; Beltran, A.; Achary, S. N.; Tyagi, A. K.	Experimental and theoretical investigation of ThGeO ₄ at high pressure	PHYSICAL REVIEW B	80	94101	2009	10.1103/PhysRevB.80.094101	23
Gracia, L.; Beltran, A.; Errandonea, D.	Characterization of the TiSiO ₄ structure and its pressure-induced phase transformations: Density functional theory study	PHYSICAL REVIEW B	80	94105	2009	10.1103/PhysRevB.80.094105	22
Contreras-Garcia, J.; Mori-Sanchez, P.; Silvi, B.; Recio, J. M.	A Quantum Chemical Interpretation of Compressibility in Solids	JOURNAL OF CHEMICAL THEORY AND COMPUTATION	5	2108	2009	10.1021/ct900224w	15
Rodriguez-Lazcano, Y.; Nataf, L.; Rodriguez, F.	Electronic structure and luminescence of [(CH ₃) ₄ N](₂)MnX ₄ (X=Cl,Br) crystals at high pressures by time-resolved spectroscopy: Pressure effects on the Mn-Mn exchange coupling	PHYSICAL REVIEW B	80	85115	2009	10.1103/PhysRevB.80.085115	8
Errandonea, Daniel	Observation of chemical reactions between alkaline-earth oxides and tungsten at high pressure and high temperature	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	70	1117	2009	10.1016/j.jpcs.2009.06.009	2
Tielens, F.; Calatayud, M.; Franco, R.; Recio, J. M.; Perez-Ramirez, J.; Minot, C.	Theoretical investigation of the inversion parameter in Co-3 (-) sAl _s O ₄ (s=0-3) spinel structures	SOLID STATE IONICS	180	1011	2009	10.1016/j.ssi.2009.03.023	10
Lopez, Sinhue; Romero, A. H.; Rodriguez-Hernandez, P.; Munoz, A.	First-principles study of the high-pressure phase transition in ZnAl ₂ O ₄ and ZnGa ₂ O ₄ : From cubic spinel to orthorhombic post-spinel structures	PHYSICAL REVIEW B	79	214103	2009	10.1103/PhysRevB.79.214103	24
Manjon, F. J.; Errandonea, D.; Lopez-Solano, J.; Rodriguez-Hernandez, P.; Munoz, A.	Negative pressures in CaWO ₄ nanocrystals	JOURNAL OF APPLIED PHYSICS	105	94321	2009	10.1063/1.3116727	7
Errandonea, D.; Lacomba-Perales, R.; Ruiz-Fuertes, J.; Segura, A.; Achary, S. N.; Tyagi, A. K.	High-pressure structural investigation of several zircon-type orthovanadates	PHYSICAL REVIEW B	79	184104	2009	10.1103/PhysRevB.79.184104	51

Machon, D.; Toulemonde, P.; McMillan, P. F.; Amboage, M.; Munoz, A.; Rodriguez-Hernandez, P.; San Miguel, A.	High-pressure phase transformations, pressure-induced amorphization, and polyamorphic transition of the clathrate Rb ₆ .15Si ₄₆	PHYSICAL REVIEW B	79	184101	2009	10.1103/PhysRevB.79.184101	15
Sans, J. A.; Sanchez-Royo, J. F.; Segura, A.; Tobias, G.; Canadell, E.	Chemical effects on the optical band-gap of heavily doped ZnO:M-III (M=Al,Ga,In): An investigation by means of photoelectron spectroscopy, optical measurements under pressure, and band structure calculations	PHYSICAL REVIEW B	79	195105	2009	10.1103/PhysRevB.79.195105	48
Munoz-Santiuste, Juan E.; Rodriguez-Mendoza, Ulises R.; Gonzalez-Platas, Javier; Lavin, Victor	Structural study of the Eu ³⁺ environments in fluorozirconate glasses: Role of the temperature-induced and the pressure-induced phase transition processes in the development of a rare earth's local structure model	JOURNAL OF CHEMICAL PHYSICS	130	154501	2009	10.1063/1.3100770	7
Errandonea, Daniel; Manjon, Francisco Javier	On the ferroelastic nature of the scheelite-to-fergusonite phase transition in orthotungstates and orthomolybdates	MATERIALS RESEARCH BULLETIN	44	807	2009	10.1016/j.materresbull.2008.09.024	25
Zamora, A.; Guamis, B.; Trujillo, A. J.	Protein composition of caprine milk fat globule membrane	SMALL RUMINANT RESEARCH	82	122	2009	10.1016/j.smallrumres.2009.02.010	7
Guignon, B.; Aparicio, C.; Otero, L.; Sanz, P. D.	Prediction of Ice Content in Biological Model Solutions When Frozen Under High Pressure	BIOTECHNOLOGY PROGRESS	25	454	2009	10.1021/bp.103	2
Errandonea, Daniel	TRANSITION METALS Can metals be a liquid glass?	NATURE MATERIALS	8	170	2009	10.1038/nmat2386	8
Millot, M.; Gilliland, S.; Broto, J. M.; Gonzalez, J.; Leotin, J.; Chevy, A.; Segura, A.	High pressure and high magnetic field behaviour of free and donor-bound-exciton photoluminescence in InSe	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	246	532	2009	10.1002/pssb.200880542	1
Errandonea, D.; Segura, A.; Martinez-Garcia, D.; Munoz-San Jose, V.	Hall-effect and resistivity measurements in CdTe and ZnTe at high pressure: Electronic structure of impurities in the zinc-blende phase and the semimetallic or metallic character of the high-pressure phases	PHYSICAL REVIEW B	79	125203	2009	10.1103/PhysRevB.79.125203	14
Florez, M.; Contreras-Garcia, J.; Recio, J. M.; Marques, M.	Quantum-mechanical calculations of zircon to scheelite transition pathways in ZrSiO ₄	PHYSICAL REVIEW B	79	104101	2009	10.1103/PhysRevB.79.104101	18
Lacomba-Perales, R.; Errandonea, D.; Martinez-Garcia, D.; Rodriguez-Hernandez, P.; Radescu, S.; Mujica, A.; Munoz, A.; Chervin, J. C.; Polian, A.	Phase transitions in wolframite-type CdWO ₄ at high pressure studied by Raman spectroscopy and density-functional theory	PHYSICAL REVIEW B	79	94105	2009	10.1103/PhysRevB.79.094105	43
Mediavilla, C.; Tortajada, J.; Baonza, V. G.	Modeling High Pressure Reactivity in Unsaturated Systems: Application to Dimethylacetylene	JOURNAL OF COMPUTATIONAL CHEMISTRY	30	415	2009	10.1002/jcc.21068	1
Errandonea, Daniel	Comment on "Molten salt synthesis of barium molybdate and tungstate microcrystals"	MATERIALS LETTERS	63	160	2009	10.1016/j.matlet.2008.08.041	3
Tilmaciu, Carmen-Mihaela; Soula, Brigitte; Galibert, Anne-Marie; Lukanov, Petar; Datas, Lucien; Gonzalez, Jesus; Fernandez Barquin, Luis; Rodriguez Fernandez, Jesus; Gonzalez-Jimenez, Fernando; Jorge, Jose; Flahaut, Emmanuel	Synthesis of superparamagnetic iron(III) oxide nanowires in double-walled carbon nanotubes	CHEMICAL COMMUNICATIONS		6664	2009	10.1039/b909035e	7

Guignon, Berengere; Aparicio, Cristina; Sanz, Pedro D.	Volumetric properties of sunflower and olive oils at temperatures between 15 and 55C under pressures up to 350MPa	HIGH PRESSURE RESEARCH	29	38	2009	10.1080/08957950802659823	15
Saldo, J.; Suarez-Jacobo, A.; Gervilla, R.; Guamis, B.; Roig-Sagues, A. X.	Use of ultra-high-pressure homogenization to preserve apple juice without heat damage	HIGH PRESSURE RESEARCH	29	52	2009	10.1080/08957950802715112	18
Waskowska, A.; Gerward, L.; Olsen, J. Staun; Marques, M.; Contreras-Garcia, J.; Recio, J. M.	The bulk modulus of cubic spinel selenides: an experimental and theoretical study	HIGH PRESSURE RESEARCH	29	72	2009	10.1080/08957950802338642	5
Lacomba-Perales, R.; Martinez-Garcia, D.; Errandonea, D.; Le Godec, Y.; Philippe, J.; Morard, G.	High-pressure and high-temperature X-ray diffraction studies of scheelite BaWO4	HIGH PRESSURE RESEARCH	29	76	2009	10.1080/08957950802417792	7
Taravillo, M.; del Corro, E.; Contreras-Garcia, J.; Pendas, A. Martin; Florez, M.; Recio, J. M.; Baonza, V. G.	Universal compressibility behaviour of ions in ionic crystals	HIGH PRESSURE RESEARCH	29	97	2009	10.1080/08957950802552127	5
Rodriguez-Lazcano, Y.; Nataf, Lucie; Rodriguez, Fernando	Pressure effects on the crystal field and luminescence Stokes shift of Mn ²⁺ (Td) in [(CH ₃) ₄ N] ₂ MnX ₄ (X: Cl, Br) by time-resolved spectroscopy	HIGH PRESSURE RESEARCH	29	230	2009	10.1080/08957950802564692	1
Martin-Rodriguez, R.; Valiente, R.; Rodriguez, F.; Gonzalez, J.	Optical energy gap on zinc-blende CdS nanoparticles under high pressure	HIGH PRESSURE RESEARCH	29	482	2009	10.1080/08957950903372615	3
Millot, Marius; George, Sylvie; Hatami, Fariba; Masselink, William T.; Leotin, Jean; Gonzalez, Jesus; Broto, Jean-Marc	Photoluminescence of InP/GaP quantum dots under extreme conditions	HIGH PRESSURE RESEARCH	29	488	2009	10.1080/08957950903399675	1
Aguado, Fernando; Rodriguez, Fernando; Redfern, Simon A. T.	A-cation effect on the compressibility of ACoF(3) perovskites	HIGH PRESSURE RESEARCH	29	525	2009	10.1080/08957950903468041	1
Lopez-Moreno, S.; Romero, A. H.; Rodriguez-Hernandez, P.; Munoz, A.	Ab initio study of the high-pressure phases and dynamical properties of ZnAl ₂ O ₄ and ZnGa ₂ O ₄	HIGH PRESSURE RESEARCH	29	573	2009	10.1080/08957950903474635	4
Lopez-Moreno, S.; Romero, A. H.; Rodriguez-Hernandez, P.; Munoz, A.	Ab initio calculations of the wolframite MnWO ₄ under high pressure	HIGH PRESSURE RESEARCH	29	578	2009	10.1080/08957950903438481	9
Lopez-Solano, J.; Rodriguez-Hernandez, P.; Munoz, A.	Ab initio study of high-pressure structural properties of the LuVO ₄ and ScVO ₄ zircon-type orthovanadates	HIGH PRESSURE RESEARCH	29	582	2009	10.1080/08957950903417444	8
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Nataf, L.; Rodriguez, F.; Valiente, R.; Gonzalez, J.	Spectroscopic and luminescence properties of (CH ₃) ₄ NMnCl ₃ : a sensitive Mn ²⁺ -based pressure gauge	HIGH PRESSURE RESEARCH	29	653	2009	10.1080/08957950903414979	1
Valiente, R.; Millot, M.; Rodriguez, F.; Gonzalez, J.; Broto, J. -M.; George, S.; Garcia-Revilla, S.; Romanyuk, Y.; Pollnau, M.	Er(3+) luminescence as a sensor of high pressure and strong external magnetic fields	HIGH PRESSURE RESEARCH	29	748	2009	10.1080/08957950903371716	5
Contreras-Garcia, J.; Pendas, A. Martin; Recio, J. M.; Silvi, B.	Computation of Local and Global Properties of the Electron Localization Function Topology in Crystals	JOURNAL OF CHEMICAL THEORY AND COMPUTATION	5	164	2009	10.1021/ct800420n	14

Javier Manjon, Francisco; Errandonea, Daniel	Pressure-induced structural phase transitions in materials and earth sciences	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	246	9	2009	10.1002/pssb.200844238	31
Errandonea, D.; Kumar, Ravhi S.; Manjon, F. J.; Ursaki, V. V.; Rusu, E. V.	Post-spinel transformations and equation of state in ZnGa ₂ O ₄ : Determination at high pressure by in situ x-ray diffraction	PHYSICAL REVIEW B	79	24103	2009	10.1103/PhysRevB.79.024103	39
Casado-Rojo, S.; Lorenzana, H. E.; Caceres, M.; Baonza, V. G.	A modified commercial scanner as an image plate for table-top optical applications	REVIEW OF SCIENTIFIC INSTRUMENTS	80	13104	2009	10.1063/1.3065027	0
Hernandez, Ignacio; Rodriguez, Fernando; Tressaud, Alain	Optical Properties of the (CrF(6))(3-) Complex in A(2)BMF(6):Cr(3+) Elpasolite Crystals: Variation with M-F Bond Distance and Hydrostatic Pressure	INORGANIC CHEMISTRY	47	10288	2008	10.1021/ic800606h	17
Millot, Marius; Broto, Jean-Marc; Gonzalez, Jesus	High-field Zeeman and Paschen-Back effects at high pressure in oriented ruby	PHYSICAL REVIEW B	78	155125	2008	10.1103/PhysRevB.78.155125	7
Errandonea, D.; Kumar, Ravhi S.; Manjon, F. J.; Ursaki, V. V.; Tiginyanu, I. M.	High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite ZnGa(2)Se(4) and defect-chalcopyrite CdGa(2)S(4)	JOURNAL OF APPLIED PHYSICS	104	63524	2008	10.1063/1.2981089	29
del Corro, Elena; Gonzalez, Jesus; Taravillo, Mercedes; Flahaut, Emmanuel; Baonza, Valentin G.	Raman spectra of double-wall carbon nanotubes under extreme uniaxial stress	NANO LETTERS	8	2215	2008	10.1021/nl080760o	7
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Salvado, Miguel A.; Pertierra, Pilar	Theoretical study of P ₂ O ₅ polymorphs at high pressure: Hexacoordinated phosphorus	INORGANIC CHEMISTRY	47	4884	2008	10.1021/ic8001543	5
Manjon, Francisco Javier; Errandonea, Daniel; Romero, Aldo Humberto; Garro, Nuria; Serrano, Jorge; Kuball, Martin	Lattice dynamics of wurtzite and rocksalt AlN under high pressure: Effect of compression on the crystal anisotropy of wurtzite-type semiconductors	PHYSICAL REVIEW B	77	205204	2008	10.1103/PhysRevB.77.205204	20
Errandonea, Daniel; Javier Manjon, Francisco	Pressure effects on the structural and electronic properties of ABX(4) scintillating crystals	PROGRESS IN MATERIALS SCIENCE	53	711	2008	10.1016/j.pmatsci.2008.02.001	148
Sans, J. A.; Sanchez-Royo, J. F.; Segura, A.	Study of the bandgap renormalization in Ga-doped ZnO films by means of optical absorption under high pressure and photoelectron spectroscopy	SUPERLATTICES AND MICROSTRUCTURES	43	362	2008	10.1016/j.spmi.2007.12.020	8
Mediavilla, C.; Tortajada, J.; Baonza, V. G.	Automerization in tetramethyl-cyclobutadiene	CHEMICAL PHYSICS LETTERS	454	387	2008	10.1016/j.cplett.2008.02.019	3
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Errandonea, Daniel; Kumar, Ravhi S.; Ma, Xinghua; Tu, Chaoyang	High-pressure X-ray diffraction study of SrMoO(4) and pressure-induced structural changes	JOURNAL OF SOLID STATE CHEMISTRY	181	355	2008	10.1016/j.jssc.2007.12.010	47

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Franco, R.; Tielens, F.; Calatayud, M.; Recio, J. M.	Cation distributions on CoAl ₂ O ₄ and Co ₂ AlO ₄ spinels: pressure and temperature effects	HIGH PRESSURE RESEARCH	28	521	2008	10.1080/08957950802489577	3
Nataf, Lucie; Rodriguez, Fernando; Valiente, Rafael	Photoluminescence of MgAl ₂ O ₄ :Co ²⁺ through time-resolved spectroscopy under pressure	HIGH PRESSURE RESEARCH	28	553	2008	10.1080/08957950802510562	1
Ruiz-Fuertes, J.; Errandonea, D.; Segura, A.; Manjon, F. J.; Zhu, Zh.; Tu, C. Y.	Growth, characterization, and high-pressure optical studies of CuWO ₄	HIGH PRESSURE RESEARCH	28	565	2008	10.1080/08957950802446643	16
Sanz-Ortiz, Marta N.; Rodriguez, Fernando; Demazeau, Gerard	Spin transition in Co ³⁺ by optical absorption and time-resolved spectroscopy under pressure: an appraisal of the different spin states	HIGH PRESSURE RESEARCH	28	571	2008	10.1080/08957950802552119	4
Gonzalez, J.; Power, C.; Belandria, E.; Jorge, J.; Gonzalez-Jimenez, F.; Millot, M.; Nanot, S.; Broto, J. M.; Flahaut, E.	Pressure dependence of Raman modes in double wall carbon nanotubes filled with -Fe	HIGH PRESSURE RESEARCH	28	577	2008	10.1080/08957950802485757	3
del Corro, Elena; Gonzalez, Jesus; Taravillo, Mercedes; Escoffier, Walter; Baonza, Valentin G.	Graphite under non-hydrostatic conditions	HIGH PRESSURE RESEARCH	28	583	2008	10.1080/08957950802444796	0
Millot, Marius; George, Sylvie; Broto, Jean-Marc; Couzinet, Bernard; Chervin, Jean-Claude; Polian, Alain; Power, Chrystian; Gonzalez, Jesus	New diamond anvil cell for optical and transport measurements under high magnetic fields up to 60T	HIGH PRESSURE RESEARCH	28	627	2008	10.1080/08957950802510554	4
Casado, S.; Lorenzana, H. E.; Caceres, M.; Taravillo, M.; Baonza, V. G.	Direct measurement of the liquid 4:1 methanol-ethanol equation of state up to 5GPa	HIGH PRESSURE RESEARCH	28	637	2008	10.1080/08957950802444804	1
Santamaria-Perez, D.; Errandonea, D.; Vegas, A.; Nuss, J.; Jansen, M.; Rodriguez-Hernandez, P.; Munoz, A.; Boehler, R.	Phase diagram studies on iron and nickel silicides: High-pressure experiments and ab initio calculations	Journal of Physics Conference Series	121	22013	2008	10.1088/1742-6596/121/2/022013	0
Errandonea, D.; Martinez-Garcia, D.; Segura, A.; Haines, J.; Machado-Charry, E.; Canadell, E.; Chervin, J. C.; Chevy, A.	High-pressure electronic structure and phase transitions in monoclinic InSe: X-ray diffraction, Raman spectroscopy, and density functional theory	PHYSICAL REVIEW B	77	45208	2008	10.1103/PhysRevB.77.045208	10