

Julio Pellicer Porres

List of Publications by Year in descending order

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98
papers

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citations

172207

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50
g-index

102
all docs

102
docs citations

102
times ranked

3006
citing authors

#	ARTICLE	IF	CITATIONS
1	High-pressure Raman spectroscopy study of wurtzite ZnO. Physical Review B, 2002, 65, .	1.1	468
2	High-pressure structural study of the scheelite tungstates CaWO ₄ and SrWO ₄ . Physical Review B, 2005, 72, .	1.1	159
3	Determination of the high-pressure crystal structure of BaWO ₄ and PbWO ₄ . Physical Review B, 2006, 73, .	1.1	95
4	Pressure and temperature dependence of the lattice dynamics of CuAlO ₂ investigated by Raman scattering experiments and ab initio calculations. Physical Review B, 2006, 74, .	1.1	93
5	Lattice dynamics study of scheelite tungstates under high pressure I. BaWO ₄ . Physical Review B, 2006, 74, .	1.1	91
6	Trapping of cubic ZnO nanocrystallites at ambient conditions. Applied Physics Letters, 2002, 81, 4820-4822.	1.5	86
7	On the band gap of CuAlO ₂ delafossite. Applied Physics Letters, 2006, 88, 1819-1824.	1.5	86
8	Vibrational properties of delafossite CuGaO ₂ at ambient and high pressures. Physical Review B, 2005, 72, .	1.1	74
9	High-pressure phase transitions and compressibility of wolframite-type tungstates. Journal of Applied Physics, 2010, 107, .	1.1	66
10	Structural evolution of the CuGaO ₂ delafossite under high pressure. Physical Review B, 2004, 69, .	1.1	64
11	Six-fold-coordinated phosphorus by oxygen in AlPO ₄ quartz homeotype under high pressure. Nature Materials, 2007, 6, 698-702.	13.3	64
12	New Polymorph of InVO ₄ : A High-Pressure Structure with Six-Coordinated Vanadium. Inorganic Chemistry, 2013, 52, 12790-12798.	1.9	63
13	Pressure-Induced Transformations in PrVO ₄ and SmVO ₄ and Isolation of High-Pressure Metastable Phases. Inorganic Chemistry, 2013, 52, 5464-5469.	1.9	60
14	Structure Solution of the High-Pressure Phase of CuWO ₄ and Evolution of the Jahn-Teller Distortion. Chemistry of Materials, 2011, 23, 4220-4226.	3.2	55
15	Lattice dynamics study of scheelite tungstates under high pressure II. PbWO ₄ . Physical Review B, 2006, 74, .	1.1	50
16	Pressure-Induced Polymerization of Polycyclic Aromatic Perfluoroarene Cocrystals: Single Crystal X-ray Diffraction Studies, Reaction Kinetics, and Design of Columnar Hydrofluorocarbons. Journal of the American Chemical Society, 2020, 142, 18907-18923.	6.6	47
17	Phase Stability of Lanthanum Orthovanadate at High Pressure. Journal of Physical Chemistry C, 2016, 120, 13749-13762.	1.5	42
18	Pressure-induced phase transition and band-gap collapse in the wide-band-gap semiconductor InTaO_4 . Physical Review B, 2016, 93, .	1.1	39

#	ARTICLE	IF	CITATIONS
19	Angle-resolved photoemission study and first-principles calculation of the electronic structure of GaTe. Physical Review B, 2002, 65, .	1.1	38
20	High-pressure x-ray-absorption study of GaSe. Physical Review B, 2002, 65, .	1.1	36
21	Cinnabar phase in ZnSe at high pressure. Physical Review B, 2001, 65, .	1.1	35
22	Electronic structure of CuAlO ₂ and CuScO ₂ delafossites under pressure. Physica Status Solidi (B): Basic Research, 2007, 244, 309-314.	0.7	35
23	Crystal stability and pressure-induced phase transitions in scheelite AWO ₄ (A = Ca, Sr, Ba, Pb, Eu) binary oxides. II: Towards a systematic understanding. Physica Status Solidi (B): Basic Research, 2007, 244, 295-302.	0.7	34
24	X-ray absorption of Zn _{1-x} CoxO thin films: A local structure study. Applied Physics Letters, 2006, 89, 061906.	1.5	32
25	Crystal stability and pressure-induced phase transitions in scheelite AWO ₄ (A = Ca, Sr, Ba, Pb, Eu) binary oxides. I: A review of recent ab initio calculations, ADXRD, XANES, and Raman studies. Physica Status Solidi (B): Basic Research, 2007, 244, 325-330.	0.7	31
26	High-pressure x-ray absorption study of InSe. Physical Review B, 1999, 60, 3757-3763.	1.1	30
27	Monazite-type SrCrO_4 Ordered helium trapping and bonding in compressed arsenolite: Synthesis of	1.1	30
28	$\text{A}_4\text{S}_4\text{O}_{12}$	1.1	29
29	Pressure-Driven Isostructural Phase Transition in InNbO_4 : In Situ Experimental and Theoretical Investigations. Inorganic Chemistry, 2017, 56, 5420-5430.	1.9	29
30	Comparative study of the high-pressure behavior of ZnV_2O_6 , $\text{Zn}_2\text{V}_2\text{O}_7$, and $\text{Zn}_3\text{V}_2\text{O}_8$. Journal of Alloys and Compounds, 2020, 837, 155505.	2.8	28
31	Stability of FeVO_4 under Pressure: An X-ray Diffraction and First-Principles Study. Inorganic Chemistry, 2018, 57, 7860-7876.	1.9	27
32	Specific features of the electronic structure of III-VI layered semiconductors: recent results on structural and optical measurements under pressure and electronic structure calculations. Physica Status Solidi (B): Basic Research, 2003, 235, 267-276.	0.7	26
33	Thermal instability of electrically active centers in heavily Ga-doped ZnO thin films: X-ray absorption study of the Ga-site configuration. Applied Physics Letters, 2007, 91, 221904.	1.5	26
34	Investigation of nitrogen-related acceptor centers in indium selenide by means of photoluminescence: Determination of the hole effective mass. Physical Review B, 1997, 55, 6981-6987.	1.1	24
35	Theoretical and experimental study of CaWO_4 and SrWO_4 under pressure. Journal of Physics and Chemistry of Solids, 2006, 67, 2164-2171.	1.9	24
36	Phase transition systematics in BiVO_4 by means of high-pressure "high-temperature Raman experiments. Physical Review B, 2018, 98, .	1.1	24

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37	X-ray-absorption fine-structure study of ZnSe _x Te _{1-x} alloys. Journal of Applied Physics, 2004, 96, 1491-1498.	1.1	23
38	Stability of the fergusonite phase in GdNbO ₄ by high pressure XRD and Raman experiments. Journal of Solid State Chemistry, 2017, 251, 14-18.	1.4	22
39	High-pressure polymorphs of gadolinium orthovanadate: X-ray diffraction, Raman spectroscopy, and <i>ab initio</i> calculations. Physical Review B, 2019, 100, .	1.1	22
40	High-Focusing Bragg-Crystal Polychromator Design for Energy-Dispersive X-ray Absorption Spectroscopy. Journal of Synchrotron Radiation, 1998, 5, 1250-1257.	1.0	21
41	Pressure effects on the vibrational properties of Bi_2O_3 : an experimental and theoretical study. Journal of Physics Condensed Matter, 2014, 26, 225401.	0.7	21
42	Correspondence: Strongly-driven Re+CO ₂ redox reaction at high-pressure and high-temperature. Nature Communications, 2016, 7, 13647.	5.8	21
43	Exploring the Chemical Reactivity between Carbon Dioxide and Three Transition Metals (Au, Pt, and Re) at High-Pressure, High-Temperature Conditions. Inorganic Chemistry, 2016, 55, 10793-10799.	1.9	21
44	Direct to Indirect Crossover in III-VI Layered Compounds and Alloys under Pressure. Physica Status Solidi (B): Basic Research, 1999, 211, 33-38.	0.7	20
45	Local environment of a diluted element under high pressure: Zn _{1-x} Mn _x O probed by fluorescence x-ray absorption spectroscopy. Applied Physics Letters, 2006, 89, 231904.	1.5	20
46	Room-temperature vibrational properties of potassium gadolinium double tungstate under compression up to 32GPa. Journal of Alloys and Compounds, 2015, 638, 14-20.	2.8	20
47	Metastable structural transformations and pressure-induced amorphization in natural (Mg,Fe) ₂ SiO ₄ olivine under static compression: A Raman spectroscopic study. American Mineralogist, 2016, 101, 1642-1650.	0.9	20
48	Optical absorption in GaTe under high pressure. Physical Review B, 1999, 60, 8871-8877.	1.1	18
49	Refractive index of the CuAlO ₂ delafossite. Semiconductor Science and Technology, 2009, 24, 015002.	1.0	18
50	High-pressure x-ray absorption study of GaTe including polarization. Physical Review B, 2000, 61, 125-131.	1.1	17
51	Electronic structure of p-type ultraviolet-transparent conducting CuScO ₂ films. Thin Solid Films, 2008, 516, 1431-1433.	0.8	17
52	Structural Behavior of Natural Silicate "Carbonate Spurrite Mineral, Ca ₅ (SiO ₄) ₂ (CO ₃), under High-Pressure, High-Temperature Conditions. Inorganic Chemistry, 2018, 57, 98-105.	1.9	16
53	Effect of High Pressure on the Crystal Structure and Vibrational Properties of Olivine-Type LiNiPO ₄ . Inorganic Chemistry, 2018, 57, 10265-10276.	1.9	16
54	Bond length compressibility in hard ReB ₂ investigated by x-ray absorption under high pressure. Journal of Physics Condensed Matter, 2010, 22, 045701.	0.7	15

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55	High-pressure phase diagram of Zn _{1-x} Te _{1-x} alloys. Physical Review B, 2005, 71, .	1.1	14
56	Structural and optical high-pressure study of spinel-type MnIn ₂ S ₄ . Physica Status Solidi (B): Basic Research, 2007, 244, 229-233.	0.7	14
57	XRD and XAS structural study of CuAlO ₂ under high pressure. Journal of Physics Condensed Matter, 2013, 25, 115406.	0.7	14
58	Pressure-induced instability of the fergusonite phase of EuNbO ₄ studied by <i>in situ</i> Raman spectroscopy, x-ray diffraction, and photoluminescence spectroscopy. Journal of Applied Physics, 2020, 127, .	1.1	14
59	Lattice dynamics of CuAlO ₂ under high pressure from ab initio calculations. Physica Status Solidi (B): Basic Research, 2007, 244, 342-346.	0.7	13
60	Tetrahedral versus octahedral Mn site coordination in wurtzite and rocksalt Zn _{1-x} Mn _x O investigated by means of XAS experiments under high pressure. Superlattices and Microstructures, 2007, 42, 251-254.	1.4	12
61	Optical, X-ray absorption and photoelectron spectroscopy investigation of the Co site configuration in Zn _{1-x} Co _x O films prepared by pulsed laser deposition. Superlattices and Microstructures, 2007, 42, 226-230.	1.4	12
62	High-pressure study of the infrared active modes in wurtzite and rocksalt ZnO. Physical Review B, 2011, 84, .	1.1	12
63	Pressure dependence of the interlayer and intralayer E _{2g} Raman-active modes of hexagonal BN up to the wurtzite phase transition. Physical Review B, 2020, 102, .	1.1	12
64	High Pressure EXAFS on GaTe Single Crystal Including Polarization. Physica Status Solidi (B): Basic Research, 1999, 211, 389-393.	0.7	11
65	Structural and vibrational properties of corundum-type In ₂ O ₃ nanocrystals under compression. Nanotechnology, 2017, 28, 205701.	1.3	11
66	Pressure-Induced Hexagonal to Monoclinic Phase Transition of Partially Hydrated CePO ₄ . Inorganic Chemistry, 2019, 58, 4480-4490.	1.9	11
67	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, 2013, 25, 505902.	0.7	10
68	Low-cost set-up for Fourier-transform infrared spectroscopy in diamond anvil cell from 4000 to 400 cm ⁻¹ . High Pressure Research, 2011, 31, 445-453.	0.4	9
69	GaS and InSe equations of state from single crystal diffraction. Physica Status Solidi (B): Basic Research, 2007, 244, 169-173.	0.7	8
70	Lattice and electronic contributions to the refractive index of CuWO ₄ . Journal of Applied Physics, 2014, 116, .	1.1	8
71	Phase Transitions of BiVO ₄ under High Pressure and High Temperature. Journal of Physical Chemistry C, 2022, 126, 7755-7763.	1.5	8
72	The application of the photoacoustic transmittance oscillations for determining elastic constants in gallium and indium selenides. Journal of Applied Physics, 1996, 79, 3200-3204.	1.1	7

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73	Force characterization of eddy currents. American Journal of Physics, 2006, 74, 267-271.	0.3	7
74	Buildup and structure of the InSe/Pt interface studied by angle-resolved photoemission and x-ray absorption spectroscopy. Physical Review B, 2006, 73, .	1.1	7
75	Monoclinic-tetragonal-monoclinic phase transitions in $\text{Eu}_{0.1}\text{Bi}_{0.9}\text{VO}_4$ under pressure. Journal of Physics Condensed Matter, 2019, 31, 485401.	0.7	7
76	Polymorphism of praseodymium orthovanadate under high pressure. Physical Review B, 2021, 103, .	1.1	7
77	Unveiling the role of the lone electron pair in sesquioxides at high pressure: compressibility of $\text{Pb}_2\text{Sb}_2\text{O}_3$. Dalton Transactions, 2021, 50, 5493-5505.	1.6	7
78	Observation of the Cinnabar Phase in ZnSe at High Pressure. High Pressure Research, 2002, 22, 355-359.	0.4	6
79	Interdiffusion process in the InSe/Pt interface studied by angle-resolved photoemission. Surface Science, 2006, 600, 3734-3738.	0.8	6
80	Buildup of the InSe/M interface (MPd, Au) studied by X-ray photoemission and X-ray absorption spectroscopy. Surface Science, 2007, 601, 3778-3783.	0.8	6
81	Structural Metastability and Quantum Confinement in $\text{Zn}_{1-x}\text{Co}_x\text{O}$ Nanoparticles. Nano Letters, 2016, 16, 5204-5212.	4.5	6
82	LiCrO ₂ Under Pressure: In-Situ Structural and Vibrational Studies. Crystals, 2019, 9, 2.	1.0	6
83	STRUCTURAL CHARACTERIZATION OF THE CINNABAR PHASE IN $\text{Zn}_x\text{Se}_{1-x}$ ALLOYS. High Pressure Research, 2003, 23, 339-342.	0.4	4
84	Formation of nanostructures in Eu^{3+} doped glass-ceramics: an XAS study. Journal of Physics Condensed Matter, 2013, 25, 025303.	0.7	4
85	Local structure in $\text{Ga}_{1-x}\text{In}_x$ alloys. Journal of Alloys and Compounds, 2021, 852, 156365.	1.8	4
86	Single crystal EXAFS at high pressure. High Pressure Research, 2000, 19, 335-340.	0.4	3
87	Refractive index of GaTe under high pressure. Semiconductor Science and Technology, 2000, 15, 902-907.	1.0	2
88	Investigation of the local structure of As-related acceptor centres in InSe by means of fluorescence-detected XAS. Semiconductor Science and Technology, 2002, 17, 1023-1027.	1.0	2
89	Phonons of hexagonal BN under pressure: Effects of isotopic composition. Physical Review B, 2021, 103, .	1.1	2
90	Lattice dynamics of zircon-type NdVO_4 and scheelite-type PrVO_4 under high-pressure. Journal of Physics Condensed Matter, 2022, 34, 025404.	0.7	2

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91	Competing dynamical and lattice instabilities in VO_4 rare-earth vanadium oxides under high pressure. <i>Physical Review Materials</i> , 2022, 6, .	0.9	2
92	Dependence Of Electrically Active Centers Content With The Growth Temperature In Heavily Ga-doped ZnO Thin Films: Correlation Between Optical, Structural And Transport Properties. , 2010, , .		1
93	Infrared study of SiO_2 single crystal under high pressure. <i>Journal of Applied Physics</i> , 2016, 119, 055902.	1.1	1
94	Transition path to a dense efficient-packed post-delafossite phase. Crystal structure and evolution of the chemical bonding. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159012.	2.8	1
95	Experimental demonstration of the physics of resonant cavities. <i>American Journal of Physics</i> , 2005, 73, 211-214.	0.3	0
96	High Pressure X-ray Absorption Spectroscopy on $\text{Zn}_{1-x}\text{Mn}_x\text{O}$ ($x=0.25$ and $x=0.05$) at the Mn K Edge. AIP Conference Proceedings, 2007, , .	0.3	0
97	Investigation of Mn site configuration in wurtzite and rock-salt $\text{Zn}_{1-x}\text{Mn}_x\text{O}$ by means of XAS experiments under pressure. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2006, 62, s262-s262.	0.3	0
98	Non-linear resonance in the simplest RLC circuit. <i>European Journal of Physics</i> , 2022, 43, 035204.	0.3	0