David Santamaria-Perez

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

1,968 38 25 100 h-index g-index citations papers 110 2,221 3.7 4.55 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
100	Pressure-Induced Phase Transition and Band Gap Decrease in Semiconducting ECuVO <i>Inorganic Chemistry</i> , 2022 ,	5.1	2
99	Phase stability and dense polymorph of the BaCa(CO) barytocalcite carbonate <i>Scientific Reports</i> , 2022 , 12, 7413	4.9	1
98	Crystal Structure of BaCa(CO) Alstonite Carbonate and Its Phase Stability upon Compression <i>ACS Earth and Space Chemistry</i> , 2021 , 5, 1130-1139	3.2	7
97	Compressibility and Phase Stability of Iron-Rich Ankerite. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 607	2.4	3
96	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	5.7	O
95	Comparative study of the high-pressure behavior of ZnV2O6, Zn2V2O7, and Zn3V2O8. <i>Journal of Alloys and Compounds</i> , 2020 , 837, 155505	5.7	15
94	Structural and vibrational behavior of cubic Cu1.80(3)Se cuprous selenide, berzelianite, under compression. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154646	5.7	O
93	Experimental and Theoretical Study of SbPO under Compression. <i>Inorganic Chemistry</i> , 2020 , 59, 287-307	75.1	9
92	Pressure and Temperature Effects on Low-Density Mg3Ca(CO3)4 Huntite Carbonate. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1077-1087	3.8	7
91	Experimental and theoretical confirmation of an orthorhombic phase transition in niobium at high pressure and temperature. <i>Communications Materials</i> , 2020 , 1,	6	32
90	Phase Stability of Natural Ni0.75Mg0.22Ca0.03CO3 Gaspeite Mineral at High Pressure and Temperature. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19781-19792	3.8	6
89	High-pressure polymorphs of gadolinium orthovanadate: X-ray diffraction, Raman spectroscopy, and ab initio calculations. <i>Physical Review B</i> , 2019 , 100,	3.3	9
88	Post-tilleyite, a dense calcium silicate-carbonate phase. <i>Scientific Reports</i> , 2019 , 9, 7898	4.9	11
87	Gold(i) sulfide: unusual bonding and an unexpected computational challenge in a simple solid. <i>Chemical Science</i> , 2019 , 10, 6467-6475	9.4	8
86	High-pressure phase transformations in NdVO under hydrostatic, conditions: a structural powder x-ray diffraction study. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 235401	1.8	10
85	Dense Post-Barite-type Polymorph of PbSO Anglesite at High Pressures. <i>Inorganic Chemistry</i> , 2019 , 58, 2708-2716	5.1	4
84	Melting curve and phase diagram of vanadium under high-pressure and high-temperature conditions. <i>Physical Review B</i> , 2019 , 100,	3.3	26

(2016-2019)

83	Oxidation of High Yield Strength Metals Tungsten and Rhenium in High-Pressure High-Temperature Experiments of Carbon Dioxide and Carbonates. <i>Crystals</i> , 2019 , 9, 676	2.3	7	
82	Pressure-induced changes of the structure and properties of monoclinic Ethalcocite Cu2S. <i>Physical Review B</i> , 2018 , 97,	3.3	6	
81	Experimental and Theoretical Study of Bi2O2Se Under Compression. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8853-8867	3.8	32	
8o	An Ultrahigh CO-Loaded Silicalite-1 Zeolite: Structural Stability and Physical Properties at High Pressures and Temperatures. <i>Inorganic Chemistry</i> , 2018 , 57, 6447-6455	5.1	13	
79	Structural Behavior of Natural Silicate-Carbonate Spurrite Mineral, Ca(SiO)(CO), under High-Pressure, High-Temperature Conditions. <i>Inorganic Chemistry</i> , 2018 , 57, 98-105	5.1	11	
78	High-Pressure High-Temperature Stability and Thermal Equation of State of Zircon-Type Erbium Vanadate. <i>Inorganic Chemistry</i> , 2018 , 57, 14005-14012	5.1	10	
77	Peptide metal-organic frameworks under pressure: flexible linkers for cooperative compression. <i>Dalton Transactions</i> , 2018 , 47, 10654-10659	4.3	25	
76	Compressibility and structural behavior of pure and Fe-doped SnO 2 nanocrystals. <i>Solid State Sciences</i> , 2017 , 64, 91-98	3.4	11	
75	Structural Evolution of CO2-Filled Pure Silica LTA Zeolite under High-Pressure High-Temperature Conditions. <i>Chemistry of Materials</i> , 2017 , 29, 4502-4510	9.6	16	
74	Pressure Impact on the Stability and Distortion of the Crystal Structure of CeScO. <i>Inorganic Chemistry</i> , 2017 , 56, 8363-8371	5.1	12	
73	Isothermal equation of state and phase stability of Fe5Si3 up to 96 GPa and 3000 K. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 4328-4335	3.6	6	
72	Ordered helium trapping and bonding in compressed arsenolite: Synthesis of As4O6[2He. <i>Physical Review B</i> , 2016 , 93,	3.3	23	
71	Metastable structural transformations and pressure-induced amorphization in natural (Mg,Fe)2SiO4 olivine under static compression: a raman spectroscopic study. <i>American Mineralogist</i> , 2016 , 101, 1642-1650	2.9	17	
70	Exploring the Chemical Reactivity between Carbon Dioxide and Three Transition Metals (Au, Pt, and Re) at High-Pressure, High-Temperature Conditions. <i>Inorganic Chemistry</i> , 2016 , 55, 10793-10799	5.1	17	
69	Pressure-induced amorphization of YVOŒu©+ nanoboxes. <i>Nanotechnology</i> , 2016 , 27, 025701	3.4	14	
68	InBO3 and ScBO3 at high pressures: An ab initio study of elastic and thermodynamic properties. Journal of Physics and Chemistry of Solids, 2016, 98, 198-208	3.9	6	
67	Correspondence: Strongly-driven Re+CO redox reaction at high-pressure and high-temperature. <i>Nature Communications</i> , 2016 , 7, 13647	17.4	19	
66	Infrared study of BiO2 single crystal under high pressure. <i>Journal of Applied Physics</i> , 2016 , 119, 055902	2.5	1	

65	Polymorphism in Strontium Tungstate SrWO under Quasi-Hydrostatic Compression. <i>Inorganic Chemistry</i> , 2016 , 55, 10406-10414	5.1	22
64	Experimental and Theoretical Investigations on Structural and Vibrational Properties of Melilite-Type Sr2ZnGe2O7 at High Pressure and Delineation of a High-Pressure Monoclinic Phase. <i>Inorganic Chemistry</i> , 2015 , 54, 6594-605	5.1	17
63	Crystal Structure of Sinhalite MgAlBO4 under High Pressure. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6777-6784	3.8	4
62	High-pressure structural phase transition in MnWO4. <i>Physical Review B</i> , 2015 , 91,	3.3	12
61	Exploring the high-pressure behavior of the three known polymorphs of BiPO4: Discovery of a new polymorph. <i>Journal of Applied Physics</i> , 2015 , 117, 105902	2.5	49
60	Crystal behavior of potassium bromate under compression. <i>Acta Crystallographica Section B:</i> Structural Science, Crystal Engineering and Materials, 2015 , 71, 798-804	1.8	2
59	Experimental evidence for pressure-driven isostructural and symmetry-breaking phase transitions on Bi14CrO24. <i>Solid State Communications</i> , 2014 , 182, 50-54	1.6	4
58	Pressure-induced Pr3+ 3P0 luminescence in cubic Y2O3. <i>Journal of Luminescence</i> , 2014 , 146, 27-32	3.8	24
57	Pbca-Type In2O3: The High-Pressure Post-Corundum phase at Room Temperature <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20545-20552	3.8	24
56	Structural and Vibrational Properties of CdAl2S4 under High Pressure: Experimental and Theoretical Approach. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15363-15374	3.8	6
55	Compressibility Systematics of Calcite-Type Borates: An Experimental and Theoretical Structural Study on ABO3 (A = Al, Sc, Fe, and In). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4354-4361	3.8	19
54	Effect of pressure on La2(WO4)3 with a modulated scheelite-type structure. <i>Physical Review B</i> , 2014 , 89,	3.3	5
53	High-pressure structural and elastic properties of Tl2O3. <i>Journal of Applied Physics</i> , 2014 , 116, 133521	2.5	15
52	Structural and Vibrational Study of Pseudocubic CdIn2Se4under Compression. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26987-26999	3.8	7
51	Pressure-induced phase transformations in mineral chalcocite, Cu2S, under hydrostatic conditions. Journal of Alloys and Compounds, 2014 , 610, 645-650	5.7	14
50	Structural and elastic properties of defect chalcopyrite HgGa2S4 under high pressure. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 70-78	5.7	25
49	First-principles study of structure and stability in SiLLD-based materials. <i>Highlights in Theoretical Chemistry</i> , 2014 , 197-201		
48	First-principles study of structure and stability in SiCO-based materials. <i>Theoretical Chemistry Accounts</i> , 2013 , 132, 1	1.9	7

47	Crystal structure of HgGa2Se4 under compression. <i>Materials Research Bulletin</i> , 2013 , 48, 2128-2133	5.1	17
46	Quantitative Raman spectroscopy as a tool to study the kinetics and formation mechanism of carbonates. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 116, 26-30	4.4	19
45	Phase Behavior of Ag2CrO4 under Compression: Structural, Vibrational, and Optical Properties. Journal of Physical Chemistry C, 2013 , 117, 12239-12248	3.8	21
44	Structural phase transitions on AgCuS stromeyerite mineral under compression. <i>Inorganic Chemistry</i> , 2013 , 52, 355-61	5.1	22
43	High-pressure studies of topological insulators Bi2Se3, Bi2Te3, and Sb2Te3. <i>Physica Status Solidi (B):</i> Basic Research, 2013 , 250, 669-676	1.3	61
42	High-pressure study of the structural and elastic properties of defect-chalcopyrite HgGa2Se4. Journal of Applied Physics, 2013 , 113, 073510	2.5	24
41	Compressibility and structural stability of ultra-incompressible bimetallic interstitial carbides and nitrides. <i>Physical Review B</i> , 2012 , 85,	3.3	14
40	High-pressure transition to the post-barite phase in BaCrO4 hashemite. <i>Physical Review B</i> , 2012 , 86,	3.3	18
39	High-pressure investigation of Li2MnSiO4 and Li2CoSiO4 electrode materials for lithium-ion batteries. <i>Inorganic Chemistry</i> , 2012 , 51, 5779-86	5.1	30
38	High-pressure optical and vibrational properties of CdGa2Se4: Order-disorder processes in adamantine compounds. <i>Journal of Applied Physics</i> , 2012 , 111, 013518	2.5	36
37	Compression of silver sulfide: X-ray diffraction measurements and total-energy calculations. <i>Inorganic Chemistry</i> , 2012 , 51, 5289-98	5.1	31
36	Compression of mineral barite, BaSO4: a structural study. <i>High Pressure Research</i> , 2012 , 32, 81-88	1.6	16
35	Crystal Chemistry of CdIn2S4, MgIn2S4, and MnIn2S4 Thiospinels under High Pressure. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14078-14087	3.8	38
34	Effects of high-pressure on the structural, vibrational, and electronic properties of monazite-type PbCrO4. <i>Physical Review B</i> , 2012 , 85,	3.3	53
33	Structural and vibrational study of cubic Sb2O3 under high pressure. <i>Physical Review B</i> , 2012 , 85,	3.3	57
32	Tuning the Propagation Constant by the Anticrossing Bandgap Prism Coupling Technique. <i>Plasmonics</i> , 2012 , 7, 665-675	2.4	4
31	Characterization of Salting-Out Processes during CO2-Clathrate Formation Using Raman Spectroscopy: Planetological Application. <i>Spectroscopy Letters</i> , 2012 , 45, 407-412	1.1	3
30	Four-mode plasmonic structure based on a prism-grating anticrossing bandgap. <i>Applied Physics Letters</i> , 2012 , 100, 063301	3.4	7

29	Reversibility of the zinc-blende to rock-salt phase transition in cadmium sulfide nanocrystals. Journal of Applied Physics, 2012 , 111, 063516	2.5	11
28	Structural and vibrational study of Bi2Se3 under high pressure. <i>Physical Review B</i> , 2011 , 84,	3.3	115
27	Zircon to monazite phase transition in CeVO4: X-ray diffraction and Raman-scattering measurements. <i>Physical Review B</i> , 2011 , 84,	3.3	71
26	High-pressure x-ray diffraction study of CdMoO4 and EuMoO4. <i>Journal of Applied Physics</i> , 2011 , 109, 043510-043510-5	2.5	27
25	High-pressure study of the behavior of mineral barite by x-ray diffraction. <i>Physical Review B</i> , 2011 , 84,	3.3	59
24	High-pressure experimental study on Rb2S: antifluorite to Ni2In-type phase transitions. <i>Acta Crystallographica Section B: Structural Science</i> , 2011 , 67, 109-15		36
23	High-pressure theoretical and experimental study of HgWO4. <i>High Pressure Research</i> , 2011 , 31, 58-63	1.6	1
22	Structural behaviour of alkaline sulfides under compression: high-pressure experimental study on Cs2S. <i>Journal of Chemical Physics</i> , 2011 , 135, 054511	3.9	25
21	High-pressure x-ray diffraction study of bulk and nanocrystalline PbMoO4. <i>Journal of Applied Physics</i> , 2010 , 108, 073518	2.5	29
20	High-pressure structural and lattice dynamical study of HgWO4. <i>Physical Review B</i> , 2010 , 82,	3.3	11
19	Structural Relationships Between Intermetallic Clathrates, Porous Tectosilicates and Clathrate Hydrates. <i>Structure and Bonding</i> , 2010 , 1-29	0.9	3
18	Theoretical and experimental study of the structural stability of TbPO4 at high pressures. <i>Physical Review B</i> , 2010 , 81,	3.3	40
17	High-pressure melting curve of helium and neon: Deviations from corresponding states theory. <i>Physical Review B</i> , 2010 , 81,	3.3	34
16	New high-pressure phase of HfTiO4 and ZrTiO4 ceramics. <i>Materials Research Bulletin</i> , 2010 , 45, 1732-17	7351	27
15	X-ray diffraction measurements of Mo melting to 119 GPa and the high pressure phase diagram. Journal of Chemical Physics, 2009 , 130, 124509	3.9	68
14	Structural stability of Fe5Si3 and Ni2Si studied by high-pressure x-ray diffraction and ab initio total-energy calculations. <i>Physical Review B</i> , 2008 , 77,	3.3	46
13	Melting, density, and anisotropy of iron at core conditions: new x-ray measurements to 150 GPa. <i>Journal of Physics: Conference Series</i> , 2008 , 121, 022018	0.3	66
12	FeSi melting curve up to 70´GPa. <i>Earth and Planetary Science Letters</i> , 2008 , 265, 743-747	5.3	24

LIST OF PUBLICATIONS

11	Phase diagram studies on iron and nickel silicides: high-pressure experiments andab initiocalculations. <i>Journal of Physics: Conference Series</i> , 2008 , 121, 022013	0.3	1
10	Structure, metastability, and electron density of Al lattices in light of the model of anions in metallic matrices. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 18609-18	3.4	8
9	Anions in metallic matrices model: application to the aluminium crystal chemistry. <i>Acta Crystallographica Section B: Structural Science</i> , 2006 , 62, 220-7		21
8	Structural characterization of a new high-pressure phase of GaAsO4. <i>Acta Crystallographica Section B: Structural Science</i> , 2006 , 62, 1019-24		16
7	A new description of the crystal structures of tin oxide fluorides. <i>Solid State Sciences</i> , 2005 , 7, 479-485	3.4	6
6	Iron silicides and their corresponding oxides: a high-pressure study of Fe5Si3. <i>Solid State Sciences</i> , 2004 , 6, 673-678	3.4	13
5	Structural similarities between Ti metal and titanium oxides: implications on the high-pressure behavior of oxygen in metallic matrices. <i>Solid State Sciences</i> , 2004 , 6, 809-814	3.4	10
4	The structures of ZrNCl, TiOCl and AlOCl in the light of the Zintl-Klemm concept. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2003 , 218, 466-469	1	8
3	The Zintl-Klemm concept applied to cations in oxides. I. The structures of ternary aluminates. <i>Acta Crystallographica Section B: Structural Science</i> , 2003 , 59, 305-23		36
2	Experimentos a alta presi⊡n y alta temperatura: Ventanas al universo. <i>F⊞ica De La Tierra</i> , 1970 , 23, 11		
1	The Zintlklemm Concept Applied to Cations in Oxides. II. The Structures of Silicates121-177		31