

Juan A Sans

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.

116
papers

2,301
citations

25
h-index

41
g-index

131
ext. papers

2,577
ext. citations

3.5
avg, IF

4.42
L-index

#	Paper	IF	Citations
116	Combined Experimental and Theoretical Studies: Lattice-Dynamical Studies at High Pressures with the Help of Ab Initio Calculations. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 1283	2.4	2
115	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	0
114	GdBO ₃ and YBO ₃ crystals under compression. <i>Journal of Alloys and Compounds</i> , 2021 , 866, 158962	5.7	0
113	Experimental and theoretical study of dense YBO ₃ and the influence of non-hydrostaticity. <i>Journal of Alloys and Compounds</i> , 2021 , 850, 156562	5.7	5
112	Structural, vibrational and electronic properties of HgGaS under compression. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 6841-6862	3.6	3
111	Lattice dynamics study of (Gd _{1-x} Ybx)2O ₃ (x=0.11) at high pressure. <i>Journal of Alloys and Compounds</i> , 2021 , 871, 159525	5.7	0
110	Unveiling the role of the lone electron pair in sesquioxides at high pressure: compressibility of Bi ₂ O ₃ . <i>Dalton Transactions</i> , 2021 , 50, 5493-5505	4.3	2
109	High-pressure characterization of multifunctional CrVO. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 385403	1.8	7
108	Structural and vibrational behavior of cubic Cu _{1.80(3)} Se cuprous selenide, berzelianite, under compression. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154646	5.7	0
107	Characterization and Decomposition of the Natural van der Waals SnSbTe under Compression. <i>Inorganic Chemistry</i> , 2020 , 59, 9900-9918	5.1	11
106	Structural and Lattice-Dynamical Properties of TbO under Compression: A Comparative Study with Rare Earth and Related Sesquioxides. <i>Inorganic Chemistry</i> , 2020 , 59, 9648-9666	5.1	9
105	Hydrolytic stability and biocompatibility on smooth muscle cells of polyethylene glycol/polycaprolactone-based polyurethanes. <i>Journal of Materials Research</i> , 2020 , 35, 3276-3285	2.5	0
104	PrVO under High Pressure: Effects on Structural, Optical, and Electrical Properties. <i>Inorganic Chemistry</i> , 2020 , 59, 18325-18337	5.1	3
103	Orpiment under compression: metavalent bonding at high pressure. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 3352-3369	3.6	14
102	Experimental and Theoretical Study of SbPO under Compression. <i>Inorganic Chemistry</i> , 2020 , 59, 287-307	5.1	9
101	Demonstration of the parallel axis theorem through a smartphone. <i>Physics Teacher</i> , 2019 , 57, 340-341	0.4	6
100	Structural Characterization of Auophilic Gold(I) Iodide under High Pressure. <i>Inorganic Chemistry</i> , 2019 , 58, 10665-10670	5.1	9

99	Phase stability and electronic structure of iridium metal at the megabar range. <i>Scientific Reports</i> , 2019 , 9, 8940	4.9	7
98	Study of the Degree of Cure through Thermal Analysis and Raman Spectroscopy in Composite-Forming Processes. <i>Materials</i> , 2019 , 12,	3.5	5
97	Pressure-Induced Phase Transitions in Sesquioxides. <i>Crystals</i> , 2019 , 9, 630	2.3	13
96	Experimental and Theoretical Study of Bi ₂ O ₂ Se Under Compression. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8853-8867	3.8	32
95	Stability and nature of the volume collapse of FeO under extreme conditions. <i>Nature Communications</i> , 2018 , 9, 4554	17.4	19
94	SnS Thin Films Prepared by Chemical Spray Pyrolysis at Different Substrate Temperatures for Photovoltaic Applications. <i>Journal of Electronic Materials</i> , 2017 , 46, 1714-1719	1.9	21
93	Structural and vibrational properties of corundum-type InO nanocrystals under compression. <i>Nanotechnology</i> , 2017 , 28, 205701	3.4	8
92	Pressure-Driven Isostructural Phase Transition in InNbO: In Situ Experimental and Theoretical Investigations. <i>Inorganic Chemistry</i> , 2017 , 56, 5420-5430	5.1	24
91	Determining the efficiency of optical sources using a smartphone's ambient light sensor. <i>European Journal of Physics</i> , 2017 , 38, 025301	0.8	7
90	Study of the orpiment and anorpiment phases of As ₂ S ₃ under pressure. <i>Journal of Physics: Conference Series</i> , 2017 , 950, 042018	0.3	3
89	X-ray nanoimaging of Nd ³⁺ optically active ions embedded in Sr _{0.05} Ba _{0.95} Nb ₂ O ₆ nanocrystals. <i>Optical Materials Express</i> , 2017 , 7, 2424	2.6	3
88	Structural, vibrational, and electrical study of compressed BiTeBr. <i>Physical Review B</i> , 2016 , 93,	3.3	19
87	Pressure-induced phase transition and band-gap collapse in the wide-band-gap semiconductor InTaO ₄ . <i>Physical Review B</i> , 2016 , 93,	3.3	27
86	Ordered helium trapping and bonding in compressed arsenolite: Synthesis of As ₄ O ₆ ·He. <i>Physical Review B</i> , 2016 , 93,	3.3	23
85	Bi ₂ O ₃ under compression: Optical and elastic properties and electron density topology analysis. <i>Physical Review B</i> , 2016 , 93,	3.3	15
84	Arsenolite: a quasi-hydrostatic solid pressure-transmitting medium. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 475403	1.8	3
83	Structural and electrical study of the topological insulator SnBi ₂ Te ₄ at high pressure. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 962-970	5.7	19
82	Pressure-induced phase transformation in zircon-type orthovanadate SmVO ₄ from experiment and theory. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 035402	1.8	18

81	Pressure-induced amorphization of YVO ₄ nanoboxes. <i>Nanotechnology</i> , 2016 , 27, 025701	3.4	14
80	InBO ₃ and ScBO ₃ at high pressures: An ab initio study of elastic and thermodynamic properties. <i>Journal of Physics and Chemistry of Solids</i> , 2016 , 98, 198-208	3.9	6
79	Vibrational and elastic properties of As ₄ O ₆ and As ₄ O ₆ ∩He at high pressures: Study of dynamical and mechanical stability. <i>Journal of Applied Physics</i> , 2016 , 120, 155901	2.5	7
78	Structural, Vibrational, and Electronic Study of Sb ₂ S ₃ at High Pressure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10547-10558	3.8	52
77	Structural, Vibrational, and Electronic Study of ∩As ₂ Te ₃ under Compression. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19340-19352	3.8	28
76	Crystal Structure of Sinhalite MgAlBO ₄ under High Pressure. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6777-6784	3.8	4
75	High-pressure structural phase transition in MnWO ₄ . <i>Physical Review B</i> , 2015 , 91,	3.3	12
74	Synthesis and High-Pressure Study of Corundum-Type In ₂ O ₃ . <i>Journal of Physical Chemistry C</i> , 2015 , 119, 29076-29087	3.8	16
73	Experimental and theoretical study of ∩Eu ₂ (MoO ₄) ₃ under compression. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 465401	1.8	4
72	Pressure-induced phase transition in hydrothermally grown ZnO nanoflowers investigated by Raman and photoluminescence spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 385401	1.8	4
71	Compressibility and structural stability of nanocrystalline TiO ₂ anatase synthesized from freeze-dried precursors. <i>Inorganic Chemistry</i> , 2014 , 53, 11598-603	5.1	27
70	Stardust Interstellar Preliminary Examination V: XRF analyses of interstellar dust candidates at ESRF ID13. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1594-1611	2.8	9
69	Final reports of the Stardust Interstellar Preliminary Examination. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1720-1733	2.8	23
68	Stardust Interstellar Preliminary Examination II: Curating the interstellar dust collector, picokeystones, and sources of impact tracks. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1522-1547	2.8	13
67	Stardust Interstellar Preliminary Examination III: Infrared spectroscopic analysis of interstellar dust candidates. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1548-1561	2.8	10
66	Stardust Interstellar Preliminary Examination I: Identification of tracks in aerogel. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1509-1521	2.8	10
65	Stardust Interstellar Preliminary Examination IV: Scanning transmission X-ray microscopy analyses of impact features in the Stardust Interstellar Dust Collector. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1562-1593	2.8	12
64	Pbca-Type In ₂ O ₃ : The High-Pressure Post-Corundum phase at Room Temperature.. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20545-20552	3.8	24

63	Interstellar dust. Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. <i>Science</i> , 2014 , 345, 786-91	33.3	116
62	Isostructural Second-Order Phase Transition of Bi_2O_3 at High Pressures: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23189-23201	3.8	50
61	Structural and Vibrational Properties of CdAl_2S_4 under High Pressure: Experimental and Theoretical Approach. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15363-15374	3.8	6
60	Compressibility Systematics of Calcite-Type Borates: An Experimental and Theoretical Structural Study on ABO_3 (A = Al, Sc, Fe, and In). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4354-4361	3.8	19
59	Pressure effects on the vibrational properties of Bi_2O_3 : an experimental and theoretical study. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 225401	1.8	17
58	Effect of pressure on $\text{La}_2(\text{WO}_4)_3$ with a modulated scheelite-type structure. <i>Physical Review B</i> , 2014 , 89,	3.3	5
57	Coordinated Microanalyses of Seven Particles of Probable Interstellar Origin from the Stardust Mission.. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1692-1693	0.5	8
56	High-pressure structural and elastic properties of Tl_2O_3 . <i>Journal of Applied Physics</i> , 2014 , 116, 133521	2.5	15
55	Structural and Vibrational Study of Pseudocubic CdIn_2Se_4 under Compression. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26987-26999	3.8	7
54	Stardust Interstellar Preliminary Examination X: Impact speeds and directions of interstellar grains on the Stardust dust collector. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1680-1697	2.8	19
53	Stardust Interstellar Preliminary Examination IX: High-speed interstellar dust analog capture in Stardust flight-spare aerogel. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1666-1679	2.8	14
52	Stardust Interstellar Preliminary Examination XI: Identification and elemental analysis of impact craters on Al foils from the Stardust Interstellar Dust Collector. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1698-1719	2.8	14
51	Stardust Interstellar Preliminary Examination VIII: Identification of crystalline material in two interstellar candidates. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1645-1665	2.8	10
50	Stardust Interstellar Preliminary Examination VII: Synchrotron X-ray fluorescence analysis of six Stardust interstellar candidates measured with the Advanced Photon Source 2-ID-D microprobe. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1626-1644	2.8	11
49	Stardust Interstellar Preliminary Examination VI: Quantitative elemental analysis by synchrotron X-ray fluorescence nanoimaging of eight impact features in aerogel. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 1612-1625	2.8	11
48	Structural and elastic properties of defect chalcopyrite HgGa_2S_4 under high pressure. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 70-78	5.7	25
47	Investigation of lattice dynamical and dielectric properties of MgO under high pressure by means of mid- and far-infrared spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 505902	1.8	7
46	Vibrational study of HgGa_2S_4 under high pressure. <i>Journal of Applied Physics</i> , 2013 , 113, 093512	2.5	18

45	Structural study of Bi ₂ O ₃ under pressure. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 475402	1.8	27
44	Order-disorder processes in adamantane ternary ordered-vacancy compounds. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 1496-1504	1.3	10
43	Phase Behavior of Ag ₂ CrO ₄ under Compression: Structural, Vibrational, and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12239-12248	3.8	21
42	Oscillations studied with the smartphone ambient light sensor. <i>European Journal of Physics</i> , 2013 , 34, 1349-1354	0.8	53
41	Spatially resolved X-ray excited optical luminescence. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 284, 36-39	1.2	32
40	Iron oxidation state in garnet from a subduction setting: a micro-XANES and electron microprobe (blank method) comparative study. <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 1725	3.7	25
39	High-pressure lattice dynamical study of bulk and nanocrystalline In ₂ O ₃ . <i>Journal of Applied Physics</i> , 2012 , 112, 123511	2.5	49
38	Compressibility and structural stability of ultra-incompressible bimetallic interstitial carbides and nitrides. <i>Physical Review B</i> , 2012 , 85,	3.3	14
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	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. <i>Physical Review B</i> , 2012 , 86,	3.3	37
35	Probing quantum confinement within single core-multishell nanowires. <i>Nano Letters</i> , 2012 , 12, 5829-34	11.5	31
34	Complex high-pressure polymorphism of barium tungstate. <i>Physical Review B</i> , 2012 , 86,	3.3	61
33	Status of the hard X-ray microprobe beamline ID22 of the European Synchrotron Radiation Facility. <i>Journal of Synchrotron Radiation</i> , 2012 , 19, 10-8	2.4	89
32	X-ray excited optical luminescence imaging of InGa _N nano-LEDs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 628-630		2
31	Study of metallic pieces from the Andalusian baroque period with micro X-ray diffraction and micro X-ray fluorescence. <i>Diamond Light Source Proceedings</i> , 2011 , 1,		1
30	Direct observation of elemental segregation in InGa _N nanowires by X-ray nanoprobe. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 95-97	2.5	12
29	Charge-transfer absorption band in Zn _{1-x} M _x O (M: Co, Mn) investigated by means of photoconductivity, Ga doping, and optical measurements under pressure. <i>Applied Physics Letters</i> , 2010 , 96, 241902	3.4	16
28	Thermal instability of implanted Mn ions in ZnO. <i>Journal of Applied Physics</i> , 2010 , 107, 023507	2.5	6

27	Absence of ferromagnetism in single-phase wurtzite Zn _{1-x} MnxO polycrystalline thin films. <i>Journal of Applied Physics</i> , 2010 , 108, 073922	2.5	14
26	Inversion domain boundaries in GaN studied by X-ray microprobe. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 31-33	2.5	
25	X-ray linear dichroism of defects in GaN:Mg using hard x-ray nanoprobe. <i>Applied Physics Letters</i> , 2009 , 95, 151909	3.4	4
24	Study of metallic components of historical organ pipes using synchrotron radiation X-ray microfluorescence imaging and grazing incidence X-ray diffraction. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 395, 1969-75	4.4	8
23	Synchrotron study of oxygen depletion in a Bi-2212 whisker annealed at 363 K. <i>Journal of Synchrotron Radiation</i> , 2009 , 16, 813-7	2.4	15
22	Micro-photoluminescence spectroscopy on metal precipitates in silicon. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009 , 3, 230-232	2.5	43
21	X-ray excited optical luminescence from crystalline silicon. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009 , 3, 275-277	2.5	9
20	Chemical effects on the optical band-gap of heavily doped ZnO:MIII (M=Al,Ga,In): An investigation by means of photoelectron spectroscopy, optical measurements under pressure, and band structure calculations. <i>Physical Review B</i> , 2009 , 79,	3.3	106
19	Fluorescence X-ray micro-spectroscopy activities at ESRF. <i>Journal of Physics: Conference Series</i> , 2009 , 186, 012014	0.3	3
18	X-ray absorption in GaGdN: A study of local structure. <i>Applied Physics Letters</i> , 2008 , 93, 021916	3.4	24
17	Study of the bandgap renormalization in Ga-doped ZnO films by means of optical absorption under high pressure and photoelectron spectroscopy. <i>Superlattices and Microstructures</i> , 2008 , 43, 362-367	2.8	12
16	Tetrahedral versus octahedral Mn site coordination in wurtzite and rocksalt Zn _{1-x} MnxO investigated by means of XAS experiments under high pressure. <i>Superlattices and Microstructures</i> , 2007 , 42, 251-254	2.8	12
15	Pressure dependence of photoluminescence of InAs/InP self-assembled quantum wires. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 59-64	1.3	1
14	Pressure dependence of the optical properties of wurtzite and rock-salt Zn _{1-x} CoxO thin films. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 407-412	1.3	7
13	Optical, X-ray absorption and photoelectron spectroscopy investigation of the Co site configuration in Zn _{1-x} CoxO films prepared by pulsed laser deposition. <i>Superlattices and Microstructures</i> , 2007 , 42, 226-230	2.8	11
12	Thermal instability of electrically active centers in heavily Ga-doped ZnO thin films: X-ray absorption study of the Ga-site configuration. <i>Applied Physics Letters</i> , 2007 , 91, 221904	3.4	25
11	Correlation between optical and transport properties of Ga-doped ZnO thin films prepared by pulsed laser deposition. <i>Superlattices and Microstructures</i> , 2006 , 39, 282-290	2.8	41
10	X-ray absorption of Zn _{1-x} CoxO thin films: A local structure study. <i>Applied Physics Letters</i> , 2006 , 89, 061904	3.4	32

9	High conductivity of Ga-doped rock-salt ZnO under pressure: Hint on deep-ultraviolet-transparent conducting oxides. <i>Applied Physics Letters</i> , 2006 , 88, 011910	3.4	48
8	Spin-exchange interaction in ZnO-based quantum wells. <i>Physical Review B</i> , 2006 , 74,	3.3	25
7	Local environment of a diluted element under high pressure: Zn _{1-x} MnxO probed by fluorescence x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , 2006 , 89, 231904	3.4	20
6	Optical properties of wurtzite and rock-salt ZnO under pressure. <i>Microelectronics Journal</i> , 2005 , 36, 928-932	2.2	37
5	Structural evolution of the CuGaO ₂ delafossite under high pressure. <i>Physical Review B</i> , 2004 , 69,	3.3	63
4	Optical properties and structural phase transitions in Mg _x Zn _{1-x} O under hydrostatic pressure. <i>High Pressure Research</i> , 2004 , 24, 119-127	1.6	14
3	Optical properties of thin films of ZnO prepared by pulsed laser deposition. <i>Thin Solid Films</i> , 2004 , 453-454, 251-255	2.2	70
2	Electronic structure and optical properties of CdTe rock-salt high pressure phase. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 235, 509-513	1.3	8
1	Optical properties and electronic structure of rock-salt ZnO under pressure. <i>Applied Physics Letters</i> , 2003 , 83, 278-280	3.4	138