## scar Gomis

## 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.

86
papers

2,166
citations

42
g-index

90
ext. papers

2,468
ext. citations

3.5
avg, IF

L-index



#	Paper	IF	Citations
86	Pressure-induced order-disorder transitions in EnS: an experimental and theoretical study of structural and vibrational properties. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 23625-23642	3.6	O
85	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> , <b>2021</b> , 867, 159012	5.7	0
84	Experimental and theoretical study of dense YBO3 and the influence of non-hydrostaticity. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 850, 156562	5.7	5
83	Structural, vibrational and electronic properties of #GaS under compression. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 6841-6862	3.6	3
82	Pressure-induced band anticrossing in two adamantine ordered-vacancy compounds: CdGa2S4 and HgGa2S4. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 886, 161226	5.7	1
81	Characterization and Decomposition of the Natural van der Waals SnSbTe under Compression. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 9900-9918	5.1	11
80	Structural and Lattice-Dynamical Properties of TbO under Compression: A Comparative Study with Rare Earth and Related Sesquioxides. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 9648-9666	5.1	9
79	Orpiment under compression: metavalent bonding at high pressure. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 3352-3369	3.6	14
78	Phase Stability of Natural Ni0.75Mg0.22Ca0.03CO3 Gaspeite Mineral at High Pressure and Temperature. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 19781-19792	3.8	6
77	Vibrational properties of CdGa2S4 at high pressure. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 115901	2.5	4
76	Elastic and thermodynamic properties of Bi2O3 at high pressures: Study of mechanical and dynamical stability. <i>Journal of Physics and Chemistry of Solids</i> , <b>2019</b> , 124, 111-120	3.9	8
75	Experimental and Theoretical Study of Bi2O2Se Under Compression. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8853-8867	3.8	32
74	Bandgap behavior and singularity of the domain-induced light scattering through the pressure-induced ferroelectric transition in relaxor ferroelectric AxBa1\(\mathbb{\text{N}}\)Nb2O6 (A: Sr,Ca). <i>Applied Physics Letters</i> , <b>2018</b> , 112, 042901	3.4	2
73	High-pressure structural and vibrational properties of monazite-type BiPO, LaPO, CePO, and PrPO. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 065401	1.8	15
72	High-pressure structural, elastic, and thermodynamic properties of zircon-type HoPO and TmPO. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 095401	1.8	31
71	Pressure Impact on the Stability and Distortion of the Crystal Structure of CeScO. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 8363-8371	5.1	12
70	Structural, vibrational, and electrical study of compressed BiTeBr. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	19

## (2014-2016)

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51	Structural and Vibrational Properties of CdAl2S4 under High Pressure: Experimental and Theoretical Approach. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 15363-15374	3.8	6
50	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> , <b>2014</b> , 118, 4354-4361	3.8	19
49	Quasi-hydrostatic X-ray powder diffraction study of the low- and high-pressure phases of CaWO4 up to 28 GPa. <i>Solid State Sciences</i> , <b>2014</b> , 36, 16-23	3.4	13
48	Pressure effects on the vibrational properties of Bi(2)O(3): an experimental and theoretical study. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 225401	1.8	17
47	High-pressure structural and elastic properties of Tl2O3. Journal of Applied Physics, 2014, 116, 133521	2.5	15
46	Room-temperature vibrational properties of multiferroic MnWO4 under quasi-hydrostatic compression up to 39 GPa. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 043510	2.5	19
45	Structural and Vibrational Study of Pseudocubic CdIn2Se4under Compression. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 26987-26999	3.8	7
44	Structural and elastic properties of defect chalcopyrite HgGa2S4 under high pressure. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 583, 70-78	5.7	25
43	(mathrm{AB}_{2} text {Se}_{4}) Ordered-Vacancy Compounds at High Pressures. <i>Springer Series in Materials Science</i> , <b>2014</b> , 163-184	0.9	3
42	Lattice Dynamics Study of HgGa2Se4 at High Pressures. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 157	7 <b>3</b> ØE7	010
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41	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa2Te4. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 233507	2.5	25
41 40	X-ray diffraction study on pressure-induced phase transformations and the equation of state of		
	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa2Te4. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 233507  High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa2Se4.	2.5	25
40	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa2Te4. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 233507  High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa2Se4. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 233501	2.5	25
40 39	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa2Te4. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 233507  High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa2Se4. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 233501  Vibrational study of HgGa2S4 under high pressure. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 093512  Thermally activated cation ordering in ZnGa2Se4 single crystals studied by Raman scattering,	2.5 2.5 2.5	25 14 18
40 39 38	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa2Te4. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 233507  High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa2Se4. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 233501  Vibrational study of HgGa2S4 under high pressure. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 093512  Thermally activated cation ordering in ZnGa2Se4 single crystals studied by Raman scattering, optical absorption, and ab initio calculations. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 165802	2.5 2.5 2.5	25 14 18 8
39 38 37	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa2Te4. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 233507  High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa2Se4. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 233501  Vibrational study of HgGa2S4 under high pressure. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 093512  Thermally activated cation ordering in ZnGa2Se4 single crystals studied by Raman scattering, optical absorption, and ab initio calculations. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 165802  Structural study of Bi2O3 under pressure. <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 475402	2.5 2.5 2.5 1.8	25 14 18 8

## (2011-2013)

33	New polymorph of InVO4: a high-pressure structure with six-coordinated vanadium. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 12790-8	5.1	51	
32	Synthesis of a novel zeolite through a pressure-induced reconstructive phase transition process. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 10458-62	16.4	36	
31	High-pressure studies of topological insulators Bi2Se3, Bi2Te3, and Sb2Te3. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 669-676	1.3	61	
30	High-pressure study of the structural and elastic properties of defect-chalcopyrite HgGa2Se4. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 073510	2.5	24	
29	High-pressure lattice dynamical study of bulk and nanocrystalline In2O3. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 123511	2.5	49	
28	Compressibility and structural stability of ultra-incompressible bimetallic interstitial carbides and nitrides. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	14	
27	Raman scattering study of bulk and nanocrystalline PbMoO4 at high pressures. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 103510	2.5	17	
26	High-pressure optical and vibrational properties of CdGa2Se4: Order-disorder processes in adamantine compounds. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 013518	2.5	36	
25	Compression of silver sulfide: X-ray diffraction measurements and total-energy calculations. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 5289-98	5.1	31	
24	Complex high-pressure polymorphism of barium tungstate. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	61	
23	New high-pressure phase and equation of state of Ce2Zr2O8. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 053	521.9	21	
22	Structural and vibrational study of Bi2Se3 under high pressure. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	115	
21	Lattice dynamics of Sb2Te3 at high pressures. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	81	
20	High-pressure vibrational and optical study of Bi2Te3. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	83	
19	Production of Oxidants by Ion Bombardment of Icy Moons in the Outer Solar System. <i>Advances in Astronomy</i> , <b>2011</b> , 2011, 1-10	0.9	8	
18	High-pressure study of the behavior of mineral barite by x-ray diffraction. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	59	
17	High-pressure Raman spectroscopy and lattice-dynamics calculations on scintillating MgWO4: Comparison with isomorphic compounds. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	61	
16	High-pressure theoretical and experimental study of HgWO4. <i>High Pressure Research</i> , <b>2011</b> , 31, 58-63	1.6	1	

15	Nonlinear pressure dependence of the direct band gap in adamantine ordered-vacancy compounds. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	24
14	High-pressure structural and lattice dynamical study of HgWO4. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	11
13	High-pressure x-ray diffraction and ab initio study of Ni2Mo3N, Pd2Mo3N, Pt2Mo3N, Co3Mo3N, and Fe3Mo3N: Two families of ultra-incompressible bimetallic interstitial nitrides. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	80
12	Theoretical and experimental study of the structural stability of TbPO4 at high pressures. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	40
11	The origin of sulfur-bearing species on the surfaces of icy satellites. <i>Advances in Space Research</i> , <b>2009</b> , 43, 1442-1445	2.4	11
10	Ion irradiation of astrophysical ices. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 101, 012002	0.3	20
9	Ion irradiation of H2O ice on top of sulfurous solid residues and its relevance to the Galilean satellites. <i>Icarus</i> , <b>2008</b> , 194, 146-152	3.8	16
8	H-implantation in SO2 and CO2 ices. <i>Planetary and Space Science</i> , <b>2008</b> , 56, 1300-1308	2	34
7	Infrared studies at the ice laboratory of Alcoy. Planetary and Space Science, 2008, 56, 1744-1747	2	1
6	Hydrate sulfuric acid after sulfur implantation in water ice. <i>Icarus</i> , <b>2007</b> , 192, 623-628	3.8	32
5	CO2 production by ion irradiation of H2O ice on top of carbonaceous materials and its relevance to the Galilean satellites. <i>Icarus</i> , <b>2005</b> , 177, 570-576	3.8	39
4	Production of oxidants by ion irradiation of water/carbon dioxide frozen mixtures. <i>Astrobiology</i> , <b>2005</b> , 5, 612-21	3.7	24
3	Hydrogen peroxide production by ion irradiation of thin water ice films. <i>Astronomy and Astrophysics</i> , <b>2004</b> , 420, 405-410	5.1	42
2	Hydrogen peroxide formation by ion implantation in water ice and its relevance to the Galilean satellites. <i>Planetary and Space Science</i> , <b>2004</b> , 52, 371-378	2	66
1	Implantation of carbon and nitrogen ions in water ice. <i>Icarus</i> , <b>2003</b> , 164, 163-169	3.8	49