

Michael G Pravica

List of Publications by Year in descending order

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76
papers

1,752
citations

331670

21
h-index

289244

40
g-index

76
all docs

76
docs citations

76
times ranked

1996
citing authors

#	ARTICLE	IF	CITATIONS
1	Net NMR alignment by adiabatic transport of parahydrogen addition products to high magnetic field. <i>Chemical Physics Letters</i> , 1988, 145, 255-258.	2.6	391
2	Characteristics of silicone fluid as a pressure transmitting medium in diamond anvil cells. <i>Review of Scientific Instruments</i> , 2004, 75, 4450-4454.	1.3	126
3	Pressure-Driven Cooperative Spin-Crossover, Large-Volume Collapse, and Semiconductor-to-Metal Transition in Manganese(II) Honeycomb Lattices. <i>Journal of the American Chemical Society</i> , 2016, 138, 15751-15757.	13.7	91
4	NMR Study of Ortho-Para Conversion at High Pressure in Hydrogen. <i>Physical Review Letters</i> , 1998, 81, 4180-4183.	7.8	55
5	Pressure induced structural transitions in CuSbS ₂ and CuSbSe ₂ thermoelectric compounds. <i>Journal of Alloys and Compounds</i> , 2015, 643, 186-194.	5.5	54
6	X-ray Raman scattering studies on C ₆₀ fullerenes and multi-walled carbon nanotubes under pressure. <i>Diamond and Related Materials</i> , 2007, 16, 1250-1253.	3.9	53
7	High-Pressure Far- and Mid-Infrared Study of 1,3,5-Triamino-2,4,6-trinitrobenzene. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9133-9137.	2.5	48
8	Reversible switching between pressure-induced amorphization and thermal-driven recrystallization in VO ₂ (B) nanosheets. <i>Nature Communications</i> , 2016, 7, 12214.	12.8	47
9	Raman Scattering Studies of the High-Pressure Stability of Pentaerythritol Tetranitrate, C(CH ₂ ONO ₂) ₄ . <i>Journal of Physical Chemistry B</i> , 2005, 109, 19223-19227.	2.6	38
10	A high-pressure far- and mid-infrared study of 1,1-diamino-2,2-dinitroethylene. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	37
11	Nuclear magnetic resonance in a diamond anvil cell at very high pressures. <i>Review of Scientific Instruments</i> , 1998, 69, 479-484.	1.3	36
12	Charge transfer in spinel Co ₃ O ₄ at high pressures. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 435401.	1.8	36
13	1,1-diamino-2,2-dinitroethylene under high pressure-temperature. <i>Journal of Chemical Physics</i> , 2012, 137, 174304.	3.0	35
14	Infrared study of 1,3,5-triamino-2,4,6-trinitrobenzene under high pressure. <i>Physical Review B</i> , 2007, 76, .	3.2	34
15	High-Pressure Studies of Cyclohexane to 40 GPa. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4103-4108.	2.6	32
16	Giant Pressure-Driven Lattice Collapse Coupled with Intermetallic Bonding and Spin-State Transition in Manganese Chalcogenides. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10350-10353.	13.8	32
17	Hydrazine at high pressure. <i>Chemical Physics Letters</i> , 2013, 555, 115-118.	2.6	31
18	Radiation-Induced Decomposition of PETN and TATB under Extreme Conditions. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3352-3359.	2.5	30

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19	A far- and mid-infrared study of HMX (octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine) under high pressure. <i>Chemical Physics Letters</i> , 2010, 500, 28-34.	2.6	30
20	High pressure Raman spectroscopic study of structural polymorphismin cyclohexane. <i>Applied Physics Letters</i> , 2004, 84, 5452-5454.	3.3	28
21	Phonon Density of States of Metallic Sn at High Pressure. <i>Physical Review Letters</i> , 2007, 98, 245502.	7.8	23
22	X-ray Raman Spectroscopic Study of Benzene at High Pressure. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11635-11637.	2.6	21
23	Note: A novel method for <i>in situ</i> loading of gases via x-ray induced chemistry. <i>Review of Scientific Instruments</i> , 2011, 82, 106102.	1.3	21
24	Measurement of the Energy Dependence of X-ray-Induced Decomposition of Potassium Chlorate.. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2302-2306.	2.5	21
25	Structural transition of PETN-I to ferroelastic orthorhombic phase PETN-III at elevated pressures. <i>Journal of Chemical Physics</i> , 2007, 127, 094502.	3.0	18
26	X-ray diffraction study of elemental thulium at pressures up to 86 GPa. <i>Physical Review B</i> , 2006, 74, .	3.2	17
27	Note: Experiments in hard x-ray chemistry: <i>In situ</i> production of molecular hydrogen and x-ray induced combustion. <i>Review of Scientific Instruments</i> , 2012, 83, 036102.	1.3	17
28	Pressure-induced cation-cation bonding in V_2O_3 . <i>Physical Review B</i> , 2015, 92, .	3.2	17
29	Radiation-induced decomposition of PETN and TATB under pressure. <i>Chemical Physics Letters</i> , 2006, 429, 304-309.	2.6	15
30	Studies of phase transitions in PETN at high pressures. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 2159-2163.	4.0	14
31	High pressure X-ray photochemical studies of carbon tetrachloride: Cl ₂ production and segregation. <i>Chemical Physics Letters</i> , 2013, 590, 74-76.	2.6	14
32	High-pressure-assisted X-ray-induced damage as a new route for chemical and structural synthesis. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18949-18956.	2.8	14
33	A high pressure, high temperature study of 1,1-diamino-2,2-dinitro ethylene. <i>High Pressure Research</i> , 2011, 31, 80-85.	1.2	13
34	High-pressure X-ray diffraction studies of potassium chlorate. <i>Journal of Applied Crystallography</i> , 2012, 45, 48-52.	4.5	13
35	Robust high pressure stability and negative thermal expansion in sodium-rich antiperovskites Na ₃ OBr and Na ₄ OI ₂ . <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	13
36	High-Pressure Studies of 1,3,5,7-Cyclooctatetraene: Experiment and Theory. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11501-11507.	2.5	12

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37	High pressure studies of potassium perchlorate. <i>Chemical Physics Letters</i> , 2016, 660, 37-42.	2.6	12
38	A simple and efficient cryogenic loading technique for diamond anvil cells. <i>Review of Scientific Instruments</i> , 2003, 74, 2782-2783.	1.3	11
39	High-pressure studies of melamine. <i>High Pressure Research</i> , 2010, 30, 65-71.	1.2	11
40	X-ray induced mobility of molecular oxygen at extreme conditions. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	11
41	Inner-shell chemistry under high pressure. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 05FA10.	1.5	11
42	Synthesis of a novel strontium-based wide-bandgap semiconductor via X-ray photochemistry under extreme conditions. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12473-12478.	5.5	11
43	X-ray diffraction study of elemental erbium to 70 GPa. <i>Physical Review B</i> , 2005, 72, .	3.2	10
44	Note: Loading method of molecular fluorine using x-ray induced chemistry. <i>Review of Scientific Instruments</i> , 2014, 85, 086110.	1.3	10
45	Carbon tetrachloride under extreme conditions. <i>Journal of Chemical Physics</i> , 2014, 140, 194503.	3.0	10
46	Measurement of the Energy and High-Pressure Dependence of X-ray-Induced Decomposition of Crystalline Strontium Oxalate. <i>Journal of Physical Chemistry A</i> , 2017, 121, 7108-7113.	2.5	10
47	Bonding changes in single wall carbon nanotubes (SWCNT) on Ti and TiH ₂ addition probed by X-ray Raman scattering. <i>Diamond and Related Materials</i> , 2007, 16, 1136-1139.	3.9	9
48	Hexafluorobenzene under Extreme Conditions. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2854-2858.	2.6	9
49	X-ray induced synthesis of a novel material: Stable, doped solid CO at ambient conditions. <i>Chemical Physics Letters</i> , 2017, 686, 183-188.	2.6	9
50	Communication: A novel method for generating molecular mixtures at extreme conditions: The case of hydrogen and oxygen. <i>Journal of Chemical Physics</i> , 2014, 141, 091101.	3.0	7
51	High pressure behavior of mercury difluoride (HgF ₂). <i>Chemical Physics Letters</i> , 2019, 724, 35-41.	2.6	7
52	Radiation-induced decomposition of explosives under extreme conditions. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2208-2212.	4.0	6
53	Organic cyclic difluoramino- ϵ -nitramines: infrared and Raman spectroscopy of 3,3,7,7-tetrakis(difluoramino)octahydro 1,5-dinitro-1,5-diazocine (HNF _X). <i>Journal of Raman Spectroscopy</i> , 2009, 40, 964-971.	2.5	6
54	High pressure infrared and X-ray Raman studies of aluminum nitride. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 726-731.	1.5	6

#	ARTICLE	IF	CITATIONS
55	Studies in useful hard x-ray photochemistry: decomposition of potassium halates. Journal of Physics: Conference Series, 2014, 500, 022009.	0.4	6
56	Giant Pressure-Driven Lattice Collapse Coupled with Intermetallic Bonding and Spin-State Transition in Manganese Chalcogenides. Angewandte Chemie, 2016, 128, 10506-10509.	2.0	6
57	A novel synthesis of polymeric CO via useful hard X-ray photochemistry. Cogent Physics, 2016, 3, .	0.7	6
58	Cationic Dependence of X-ray Induced Damage in Strontium and Barium Nitrate. Journal of Physical Chemistry A, 2018, 122, 8722-8728.	2.5	6
59	Raman spectroscopic study of cyclopentane at high pressure. Journal of Chemical Physics, 2009, 130, 204505.	3.0	5
60	In-situ synchrotron x-ray study of phase transitions in melamine under high pressures and high temperatures. Diamond and Related Materials, 2011, 20, 1090-1092.	3.9	5
61	Hydrogen at megabar pressures and the importance of ortho-para concentration. Journal of Physics Condensed Matter, 1998, 10, 11169-11177.	1.8	4
62	High pressure investigations of melamine. High Pressure Research, 2013, 33, 40-54.	1.2	4
63	A novel method for generating molecular mixtures at extreme conditions: The case of fluorine and oxygen. AIP Conference Proceedings, 2017, , .	0.4	3
64	Fluorine chemistry at extreme conditions: possible synthesis of HgF_4 . Papers in Physics, 0, 11, 110001.	0.2	3
65	A High Pressure Study of Ortho-para Conversion in Hydrogen by NMR. Journal of Low Temperature Physics, 1998, 113, 711-716.	1.4	2
66	A novel method to dope diamond with ^{10}B Ion Beam Nuclear Transmutation Doping (IBNTD). Diamond and Related Materials, 2009, 18, 846-849.	3.9	2
67	High pressure resonant X-ray emission studies of WO_3 and hydrogenated WO_3 . , 0, , .		2
68	Core/shell $ZrTiO_4/LiAlSi_2O_6$ nanocrystals: A synchrotron X-ray diffraction study of high-pressure compression. Journal of Physics and Chemistry of Solids, 2006, 67, 2072-2076.	4.0	1
69	ANISOTROPIC DECOMPOSITION OF ENERGETIC MATERIALS.. AIP Conference Proceedings, 2008, , .	0.4	1
70	High pressure infrared study of 1,3,5,7-cyclooctatetraene (COT). Journal of Physics: Conference Series, 2010, 215, 012050.	0.4	1
71	Observation of second harmonic generation in doped polymeric carbon monoxide. Materials Letters, 2019, 256, 126629.	2.6	1
72	Structure and vibration spectra of strontium and magnesium oxalates at high pressure. High Pressure Research, 2021, 41, 52-64.	1.2	1

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73	“Why do I need to take physics?” The National Teaching & Learning Forum, 2016, 25, 8-9.	0.1	0
74	When Do Scientific Explanations Compete? Steps Toward a Heuristic Checklist. <i>Metaphilosophy</i> , 2017, 48, 96-122.	0.3	0
75	Forcing Cesium into Higher Oxidation States Using Useful hard x-ray Induced Chemistry under High Pressure. <i>Journal of Physics: Conference Series</i> , 2017, 950, 042055.	0.4	0
76	Observation of pressure-induced electron transfer in SnC2O4. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5969-5974.	2.8	0