

Michael G Pravica

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75
papers

1,494
citations

21
h-index

36
g-index

76
ext. papers

1,614
ext. citations

3.4
avg, IF

4.27
L-index

#	Paper	IF	Citations
75	Net NMR alignment by adiabatic transport of parahydrogen addition products to high magnetic field. <i>Chemical Physics Letters</i> , 1988 , 145, 255-258	2.5	335
74	Characteristics of silicone fluid as a pressure transmitting medium in diamond anvil cells. <i>Review of Scientific Instruments</i> , 2004 , 75, 4450-4454	1.7	116
73	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	16.4	50
72	NMR Study of Ortho-Para Conversion at High Pressure in Hydrogen. <i>Physical Review Letters</i> , 1998 , 81, 4180-4183	7.4	50
71	X-ray Raman scattering studies on C60 fullerenes and multi-walled carbon nanotubes under pressure. <i>Diamond and Related Materials</i> , 2007 , 16, 1250-1253	3.5	45
70	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, 9133-7	2.8	43
69	Pressure induced structural transitions in CuSbS2 and CuSbSe2 thermoelectric compounds. <i>Journal of Alloys and Compounds</i> , 2015 , 643, 186-194	5.7	41
68	Raman scattering studies of the high-pressure stability of pentaerythritol tetranitrate, C(CH2ONO2)4. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19223-7	3.4	36
67	A high-pressure far- and mid-infrared study of 1,1-diamino-2,2-dinitroethylene. <i>Journal of Applied Physics</i> , 2012 , 111, 103534	2.5	34
66	Nuclear magnetic resonance in a diamond anvil cell at very high pressures. <i>Review of Scientific Instruments</i> , 1998 , 69, 479-484	1.7	32
65	Infrared study of 1,3,5-triamino-2,4,6-trinitrobenzene under high pressure. <i>Physical Review B</i> , 2007 , 76,	3.3	31
64	Charge transfer in spinel Co3O4 at high pressures. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 435401.8	1.8	30
63	High-pressure studies of cyclohexane to 40 GPa. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 4103-8	3.4	30
62	Reversible switching between pressure-induced amorphization and thermal-driven recrystallization in VO2(B) nanosheets. <i>Nature Communications</i> , 2016 , 7, 12214	17.4	30
61	Hydrazine at high pressure. <i>Chemical Physics Letters</i> , 2013 , 555, 115-118	2.5	29
60	1,1-Diamino-2,2-dinitroethylene under high pressure-temperature. <i>Journal of Chemical Physics</i> , 2012 , 137, 174304	3.9	29
59	Radiation-induced decomposition of PETN and TATB under extreme conditions. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 3352-9	2.8	27

58	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	2.5	26
57	High pressure Raman spectroscopic study of structural polymorphism in cyclohexane. <i>Applied Physics Letters</i> , 2004 , 84, 5452-5454	3.4	26
56	Giant Pressure-Driven Lattice Collapse Coupled with Intermetallic Bonding and Spin-State Transition in Manganese Chalcogenides. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10350-3	16.4	24
55	Note: A novel method for in situ loading of gases via x-ray induced chemistry. <i>Review of Scientific Instruments</i> , 2011 , 82, 106102	1.7	21
54	Measurement of the energy dependence of X-ray-induced decomposition of potassium chlorate. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2302-6	2.8	20
53	Phonon density of states of metallic Sn at high pressure. <i>Physical Review Letters</i> , 2007 , 98, 245502	7.4	20
52	X-ray Raman spectroscopic study of benzene at high pressure. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11635-7	3.4	18
51	Note: Experiments in hard x-ray chemistry: in situ production of molecular hydrogen and x-ray induced combustion. <i>Review of Scientific Instruments</i> , 2012 , 83, 036102	1.7	17
50	Structural transition of PETN-I to ferroelastic orthorhombic phase PETN-III at elevated pressures. <i>Journal of Chemical Physics</i> , 2007 , 127, 094502	3.9	17
49	X-ray diffraction study of elemental thulium at pressures up to 86GPa. <i>Physical Review B</i> , 2006 , 74,	3.3	16
48	Radiation-induced decomposition of PETN and TATB under pressure. <i>Chemical Physics Letters</i> , 2006 , 429, 304-309	2.5	14
47	High pressure X-ray photochemical studies of carbon tetrachloride: Cl ₂ production and segregation. <i>Chemical Physics Letters</i> , 2013 , 590, 74-76	2.5	13
46	High-pressure X-ray diffraction studies of potassium chlorate. <i>Journal of Applied Crystallography</i> , 2012 , 45, 48-52	3.8	13
45	Studies of phase transitions in PETN at high pressures. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 2159-2163	3.9	13
44	Pressure-induced cation-cation bonding in V ₂ O ₃ . <i>Physical Review B</i> , 2015 , 92,	3.3	12
43	Inner-shell chemistry under high pressure. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 05FA10	1.4	11
42	X-ray induced mobility of molecular oxygen at extreme conditions. <i>Applied Physics Letters</i> , 2013 , 103, 224103	3.4	11
41	A high pressure, high temperature study of 1,1-diamino-2,2-dinitro ethylene. <i>High Pressure Research</i> , 2011 , 31, 80-85	1.6	11

40	High-pressure studies of 1,3,5,7-cyclooctatetraene: experiment and theory. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 11501-7	2.8	11
39	A simple and efficient cryogenic loading technique for diamond anvil cells. <i>Review of Scientific Instruments</i> , 2003 , 74, 2782-2783	1.7	11
38	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, 025901	2.5	11
37	Note: Loading method of molecular fluorine using x-ray induced chemistry. <i>Review of Scientific Instruments</i> , 2014 , 85, 086110	1.7	10
36	High-pressure studies of melamine. <i>High Pressure Research</i> , 2010 , 30, 65-71	1.6	10
35	Carbon tetrachloride under extreme conditions. <i>Journal of Chemical Physics</i> , 2014 , 140, 194503	3.9	9
34	X-ray diffraction study of elemental erbium to 70GPa. <i>Physical Review B</i> , 2005 , 72,	3.3	9
33	High pressure studies of potassium perchlorate. <i>Chemical Physics Letters</i> , 2016 , 660, 37-42	2.5	9
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	3.6	9
31	X-ray induced synthesis of a novel material: Stable, doped solid CO at ambient conditions. <i>Chemical Physics Letters</i> , 2017 , 686, 183-188	2.5	8
30	Hexafluorobenzene under Extreme Conditions. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 2854-8	3.4	8
29	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	2.8	7
28	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	3.9	7
27	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	7.1	7
26	Giant Pressure-Driven Lattice Collapse Coupled with Intermetallic Bonding and Spin-State Transition in Manganese Chalcogenides. <i>Angewandte Chemie</i> , 2016 , 128, 10506-10509	3.6	6
25	A novel synthesis of polymeric CO via useful hard X-ray photochemistry. <i>Cogent Physics</i> , 2016 , 3,	3.5	6
24	Studies in useful hard x-ray photochemistry: decomposition of potassium halates. <i>Journal of Physics: Conference Series</i> , 2014 , 500, 022009	0.3	6
23	Organic cyclic difluoramino-nitramines: infrared and Raman spectroscopy of 3,3,7,7-tetrakis(difluoramino)octahydro 1,5-dinitro-1,5-diazocine (HNFX). <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 964-971	2.3	6

22	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	3.5	6
21	In-situ synchrotron x-ray study of phase transitions in melamine under high pressures and high temperatures. <i>Diamond and Related Materials</i> , 2011 , 20, 1090-1092	3.5	5
20	Raman spectroscopic study of cyclopentane at high pressure. <i>Journal of Chemical Physics</i> , 2009 , 130, 204505	3.9	5
19	Radiation-induced decomposition of explosives under extreme conditions. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 2208-2212	3.9	5
18	High pressure infrared and X-ray Raman studies of aluminum nitride. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 726-731	1.3	4
17	Hydrogen at megabar pressures and the importance of ortho-para concentration. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 11169-11177	1.8	4
16	High pressure behavior of mercury difluoride (HgF ₂). <i>Chemical Physics Letters</i> , 2019 , 724, 35-41	2.5	3
15	A novel method for generating molecular mixtures at extreme conditions: The case of fluorine and oxygen 2017 ,		3
14	High pressure investigations of melamine. <i>High Pressure Research</i> , 2013 , 33, 40-54	1.6	3
13	Fluorine chemistry at extreme conditions: possible synthesis of HgF ₄ . <i>Papers in Physics</i> , 11, 110001		3
12	Cationic Dependence of X-ray Induced Damage in Strontium and Barium Nitrate. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 8722-8728	2.8	3
11	A novel method to dope diamond [Ion Beam Nuclear Transmutation Doping (IBNTD)]. <i>Diamond and Related Materials</i> , 2009 , 18, 846-849	3.5	2
10	A High Pressure Study of Ortho-para Conversion in Hydrogen by NMR. <i>Journal of Low Temperature Physics</i> , 1998 , 113, 711-716	1.3	2
9	High pressure resonant X-ray emission studies of WO ₃ and hydrogenated WO ₃		2
8	Observation of second harmonic generation in doped polymeric carbon monoxide. <i>Materials Letters</i> , 2019 , 256, 126629	3.3	1
7	High pressure infrared study of 1,3,5,7-cyclooctatetraene (COT). <i>Journal of Physics: Conference Series</i> , 2010 , 215, 012050	0.3	1
6	Core/shell ZrTiO ₄ /LiAlSi ₂ O ₆ nanocrystals: A synchrotron X-ray diffraction study of high-pressure compression. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 2072-2076	3.9	1
5	When Do Scientific Explanations Compete? Steps Toward a Heuristic Checklist. <i>Metaphilosophy</i> , 2017 , 48, 96-122	0.3	

- 4 Forcing Cesium into Higher Oxidation States Using Useful hard x-ray Induced Chemistry under High Pressure. *Journal of Physics: Conference Series*, **2017**, 950, 042055 0.3
- 3 Why do I need to take physics? *The National Teaching & Learning Forum*, **2016**, 25, 8-9 0
- 2 Structure and vibration spectra of strontium and magnesium oxalates at high pressure. *High Pressure Research*, **2021**, 41, 52-64 1.6
- 1 Observation of pressure-induced electron transfer in SnCO. *Physical Chemistry Chemical Physics*, **2021**, 23, 5969-5974 3.6