

John S Tse

List of Publications by Year in descending order

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357
papers

16,262
citations

14655

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111
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361
all docs

361
docs citations

361
times ranked

12525
citing authors

#	ARTICLE	IF	CITATIONS
1	A new clathrate hydrate structure. <i>Nature</i> , 1987, 325, 135-136.	27.8	699
2	Superconductive sodalite-like clathrate calcium hydride at high pressures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6463-6466.	7.1	630
3	Carbon-Quantum-Dots-Loaded Ruthenium Nanoparticles as an Efficient Electrocatalyst for Hydrogen Production in Alkaline Media. <i>Advanced Materials</i> , 2018, 30, e1800676.	21.0	406
4	Polymer-Passivated Inorganic Cesium Lead Mixed-Halide Perovskites for Stable and Efficient Solar Cells with High Open-Circuit Voltage over 1.3 V. <i>Advanced Materials</i> , 2018, 30, 1705393.	21.0	401
5	Superconductivity in Hydrogen Dominant Materials: Silane. <i>Science</i> , 2008, 319, 1506-1509.	12.6	340
6	Stable methane hydrate above 2%GPa and the source of Titan's atmospheric methane. <i>Nature</i> , 2001, 410, 661-663.	27.8	312
7	Single Atom Ruthenium-Doped CoP/CDs Nanosheets via Splicing of Carbon-Dots for Robust Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7234-7244.	13.8	306
8	Pressure-stabilized superconductive yttrium hydrides. <i>Scientific Reports</i> , 2015, 5, 9948.	3.3	257
9	Ab initio calculation of the lithium-tin voltage profile. <i>Physical Review B</i> , 1998, 58, 15583-15588.	3.2	254
10	Piezochromic Carbon Dots with Two-photon Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6187-6191.	13.8	223
11	Mechanical instability of β -quartz: A molecular dynamics study. <i>Physical Review Letters</i> , 1991, 67, 3559-3562.	7.8	209
12	Novel Superconductivity in Metallic SnH ₄ under High Pressure. <i>Physical Review Letters</i> , 2007, 98, 117004.	7.8	195
13	Thermodynamic stability of hydrogen clathrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 14645-14650.	7.1	186
14	The structure of deuterated methane-hydrate. <i>Journal of Chemical Physics</i> , 2000, 113, 4713-4721.	3.0	176
15	AB INITIO MOLECULAR DYNAMICS WITH DENSITY FUNCTIONAL THEORY. <i>Annual Review of Physical Chemistry</i> , 2002, 53, 249-290.	10.8	172
16	Origin of glassy crystalline behavior in the thermal properties of clathrate hydrates: a thermal conductivity study of tetrahydrofuran hydrate. <i>The Journal of Physical Chemistry</i> , 1988, 92, 5006-5011.	2.9	169
17	The mechanisms for pressure-induced amorphization of ice Ih. <i>Nature</i> , 1999, 400, 647-649.	27.8	169
18	The ability of small molecules to form clathrate hydrates of structure II. <i>Nature</i> , 1984, 311, 142-143.	27.8	168

#	ARTICLE	IF	CITATIONS
19	Turning on Zn 4s Electrons in a d^2 Configuration to Stimulate Remarkable ORR Performance. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 181-185.	13.8	161
20	Formation and Structure of a Dense Octahedral Glass. <i>Physical Review Letters</i> , 2004, 93, 115502.	7.8	158
21	Transition from Cage Clathrate to Filled Ice: The Structure of Methane Hydrate III. <i>Physical Review Letters</i> , 2001, 87, 215501.	7.8	154
22	Mechanical instability in ice Ih. A mechanism for pressure-induced amorphization. <i>Journal of Chemical Physics</i> , 1992, 96, 5482-5487.	3.0	145
23	Structure of siloxene and layered polysilane (Si_6H_6). <i>Physical Review B</i> , 1993, 48, 17872-17877.	3.2	143
24	High-pressure densification of amorphous silica. <i>Physical Review B</i> , 1992, 46, 5933-5938.	3.2	140
25	High-Energy Density and Superhard Nitrogen-Rich B-N Compounds. <i>Physical Review Letters</i> , 2015, 115, 105502.	7.8	132
26	Alloying effects on elastic properties of TiN-based nitrides. <i>Journal Physics D: Applied Physics</i> , 2003, 36, 2725-2729.	2.8	130
27	Ab initio study of elastic properties of Ir and Ir ₃ X compounds. <i>Journal of Applied Physics</i> , 2003, 93, 2414-2417.	2.5	128
28	Itinerant ferromagnetic half metallic cobalt-iron couples: promising bifunctional electrocatalysts for ORR and OER. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27175-27185.	10.3	122
29	Synthesis and Thermoelectric Properties of Polycarbazole, Polyindolocarbazole, and Polydiindolocarbazole Derivatives. <i>Chemistry of Materials</i> , 2007, 19, 2128-2138.	6.7	119
30	Computer simulation studies of the structure I clathrate hydrates of methane, tetrafluoromethane, cyclopropane, and ethylene oxide. <i>Journal of Chemical Physics</i> , 1984, 81, 6146-6153.	3.0	117
31	Pressure-induced phase transformations in ice. <i>Physical Review Letters</i> , 1987, 58, 1672-1675.	7.8	115
32	Crystallographic Studies of Clathrate Hydrates. Part I. <i>Molecular Crystals and Liquid Crystals</i> , 1986, 141, 141-149.	0.8	108
33	Li Ion Diffusion Mechanisms in $LiFePO_4$: An ab Initio Molecular Dynamics Study. <i>Journal of Physical Chemistry A</i> , 2011, 115, 13045-13049.	2.5	107
34	pH-Dependent Synthesis of Novel Structure-Controllable Polymer-Carbon NanoDots with High Acidophilic Luminescence and Super Carbon Dots Assembly for White Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4062-4068.	8.0	106
35	Hysteretic Spin Crossover between a Bisdithiazolyl Radical and Its Hypervalent Ir-Dimer. <i>Journal of the American Chemical Society</i> , 2010, 132, 16212-16224.	13.7	102
36	K-edge near-edge x-ray-absorption fine structure of oxygen- and carbon-containing molecules in the gas phase. <i>Physical Review A</i> , 1989, 40, 652-669.	2.5	101

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37	Structural Memory in Pressure-Amorphized AlPO ₄ . <i>Science</i> , 1992, 255, 1559-1561.	12.6	100
38	Structural Principles and Amorphouslike Thermal Conductivity of Na-Doped Si Clathrates. <i>Physical Review Letters</i> , 2000, 85, 114-117.	7.8	100
39	Rotational and Translational Motions of Trapped Methane. Incoherent Inelastic Neutron Scattering of Methane Hydrate. <i>Journal of Physical Chemistry A</i> , 1997, 101, 4491-4495.	2.5	99
40	Coupling of localized guest vibrations with the lattice modes in clathrate hydrates. <i>Europhysics Letters</i> , 2001, 54, 354-360.	2.0	96
41	First-principles study of electron-phonon coupling in hole- and electron-doped diamonds in the virtual crystal approximation. <i>Physical Review B</i> , 2005, 72, .	3.2	96
42	The structure and dynamics of silica polymorphs using a two-body effective potential model. <i>Journal of Chemical Physics</i> , 1991, 95, 9176-9185.	3.0	92
43	Anharmonic motions of Kr in the clathrate hydrate. <i>Nature Materials</i> , 2005, 4, 917-921.	27.5	92
44	Superconductivity in high-pressure SiH ₄ . <i>Europhysics Letters</i> , 2007, 78, 37003.	2.0	89
45	From Magnets to Metals: The Response of Tetragonal Bisdiselenazolyl Radicals to Pressure. <i>Journal of the American Chemical Society</i> , 2011, 133, 6051-6060.	13.7	89
46	Transformation of ice VIII to amorphous ice by \sim melting \sim at low temperature. <i>Journal of Chemical Physics</i> , 1989, 90, 2390-2392.	3.0	86
47	X-Ray Raman Spectroscopic Study of Water in the Condensed Phases. <i>Physical Review Letters</i> , 2008, 100, 095502.	7.8	86
48	Dynamics and superconductivity in compressed lanthanum superhydride. <i>Physical Review B</i> , 2018, 98, .	3.2	85
49	High-pressure thermal expansion, bulk modulus, and phonon structure of diamond. <i>Physical Review B</i> , 1999, 60, 9444-9449.	3.2	84
50	Thermodynamic properties of empty lattices of structure I and structure II clathrate hydrates. <i>The Journal of Physical Chemistry</i> , 1986, 90, 5917-5921.	2.9	83
51	The role of non-deformable units in pressure-induced reversible amorphization of clathrasils. <i>Nature</i> , 1994, 369, 724-727.	27.8	82
52	Pressure-induced phase transitions in clathrate hydrates. <i>Journal of Chemical Physics</i> , 1991, 94, 623-627.	3.0	81
53	Structure and Properties of Dense Silica Glass. <i>Scientific Reports</i> , 2012, 2, 398.	3.3	80
54	Dynamics of Carbonium Ions Solvated by Molecular Hydrogen: CH ₅ ⁺ (H ₂) _n (n = 1, 2, 3). <i>Science</i> , 1995, 269, 57-59.	12.6	78

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55	Mechanisms for Thermal Conduction in Methane Hydrate. <i>Physical Review Letters</i> , 2009, 103, 015901.	7.8	78
56	Crystal Structure and Superconductivity of PH_3 at High Pressures. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3458-3461.	3.1	78
57	Crossing the Insulator-to-Metal Barrier with a Thiazyl Radical Conductor. <i>Journal of the American Chemical Society</i> , 2012, 134, 9886-9889.	13.7	75
58	Photoelectron study of the valence levels of CF_4 and SiF_4 from 20 to 100 eV. <i>Journal of Chemical Physics</i> , 1985, 83, 4906-4916.	3.0	74
59	Stability of doubly occupied N_2 clathrate hydrates investigated by molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2001, 114, 5745-5754.	3.0	74
60	Structural systematics in the clathrate hydrates under pressure. <i>Canadian Journal of Physics</i> , 2003, 81, 539-544.	1.1	74
61	A New Allotrope of Nitrogen as High-Energy Density Material. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2920-2925.	2.5	73
62	Elastic properties of potential superhard phases of RuO_2 . <i>Physical Review B</i> , 2000, 61, 10029-10034.	3.2	72
63	Pressure Induced Phase Transitions and Metallization of a Neutral Radical Conductor. <i>Journal of the American Chemical Society</i> , 2014, 136, 1070-1081.	13.7	72
64	Structural Stability and Phase Transitions in $\text{K}_8\text{Si}_4\text{Clathrate}$ under High Pressure. <i>Physical Review Letters</i> , 2002, 89, 195507.	7.8	71
65	High-resolution valence-band XPS spectra of the nonconductors quartz and olivine. <i>Physical Review B</i> , 2005, 72, .	3.2	71
66	Molecular Perspectives on Structure and Dynamics in Clathrate Hydrates. <i>Annals of the New York Academy of Sciences</i> , 1994, 715, 161-176.	3.8	67
67	Effect of pressure on the iron arsenide superconductor LiFeAs LiFeAs		

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73	A clathrate hydrate of carbon monoxide. <i>Nature</i> , 1987, 328, 418-419.	27.8	61
74	The structure and dynamics of doubly occupied Ar hydrate. <i>Journal of Chemical Physics</i> , 2001, 115, 9414-9420.	3.0	61
75	Mechanisms for thermal conduction in various polymorphs of methane hydrate. <i>Physical Review B</i> , 2009, 80, .	3.2	61
76	Heavy Atom Ferromagnets under Pressure: Structural Changes and the Magnetic Response. <i>Journal of the American Chemical Society</i> , 2009, 131, 16012-16013.	13.7	60
77	Anisotropy in the structure of pressure-induced disordered solids. <i>Physical Review Letters</i> , 1993, 70, 174-177.	7.8	59
78	Large bandgap of pressurized trilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9186-9190.	7.1	59
79	Indentation strength of ultraincompressible rhenium boride, carbide, and nitride from first-principles calculations. <i>Physical Review B</i> , 2012, 86, .	3.2	58
80	1983, 78, 2096-2097.	3.0	57
81	Multiple-scattering X-ray study of the silicon and chlorine core-level photoabsorption spectra of SiCl ₄ . <i>Physical Review A</i> , 1989, 39, 1791-1799.	2.5	56
82	Polycarbon Ligand Chemistry: Electronic Interactions between a Mononuclear Ruthenium Fragment and a Cobalt-Carbon Cluster Core. <i>Organometallics</i> , 1999, 18, 3885-3897.	2.3	56
83	Electron-phonon coupling mechanisms for hydrogen-rich metals at high pressure. <i>Physical Review B</i> , 2017, 96, .	3.2	56
84	Comment on "New Metallic Carbon Crystal". <i>Physical Review Letters</i> , 2009, 102, 229601.	7.8	55
85	Bonding, structures, and band gap closure of hydrogen at high pressures. <i>Physical Review B</i> , 2013, 87, .	3.2	54
86	Lattice vibrations of ices Ih, VIII, and IX. <i>Journal of Chemical Physics</i> , 1984, 81, 6124-6129.	3.0	51
87	Crystal structure, CP/MAS xenon-129 and carbon-13 NMR of local ordering in Dianin's compound clathrates. <i>Journal of the American Chemical Society</i> , 1988, 110, 6014-6019.	13.7	51
88	The electronic structure of metallo-silicon clathrates Na _x Si ₁₃₆ (x = 0, 4, 8, 16 and 24). <i>Chemical Physics Letters</i> , 1997, 264, 459-465.	2.6	51
89	NMR and X-ray Spectroscopy of Sodium-Silicon Clathrates. <i>Journal of Physical Chemistry B</i> , 2001, 105, 3475-3485.	2.6	51
90	Molecular dynamics simulation study of the properties of doubly occupied N ₂ clathrate hydrates. <i>Journal of Chemical Physics</i> , 2001, 115, 10500.	3.0	51

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91	Hardness of nanocrystalline diamonds. <i>Physical Review B</i> , 2006, 73, .	3.2	51
92	Inelastic x-ray scattering of dense solid oxygen: Evidence for intermolecular bonding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11640-11644.	7.1	51
93	Origin of anisotropy and metallic behavior in delafossite PdCoO_2 <i>Physical Review B</i> , 2010, 81, .	3.2	49
94	Investigation of the intermediate- and high-density forms of amorphous ice by molecular dynamics calculations and diffraction experiments. <i>Physical Review B</i> , 2005, 71, .	3.2	48
95	Superconductivity in lithium under high pressure investigated with density functional and Eliashberg theory. <i>Physical Review B</i> , 2009, 79, .	3.2	48
96	The Power of Packing: Metallization of an Organic Semiconductor. <i>Journal of the American Chemical Society</i> , 2017, 139, 2180-2183.	13.7	48
97	X-ray diffraction and x-ray absorption studies of porous silicon, siloxene, heat-treated siloxene, and layered polysilane. <i>Journal of Applied Physics</i> , 1994, 75, 1946-1951.	2.5	47
98	The vibrational properties of xenon hydrate: An inelastic incoherent neutron scattering study. <i>Journal of Chemical Physics</i> , 2002, 116, 3795-3799.	3.0	47
99	Structural phase transition in CaH_2 at high pressures. <i>Physical Review B</i> , 2007, 75, .	3.2	47
100	Lattice vibrations and infrared absorption of ice Ih. <i>Journal of Chemical Physics</i> , 1986, 85, 2414-2418.	3.0	45
101	Speciation and distribution of copper in a mining soil using multiple synchrotron-based bulk and microscopic techniques. <i>Environmental Science and Pollution Research</i> , 2014, 21, 2943-2954.	5.3	44
102	Doming modes and dynamics of model heme compounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12526-12530.	7.1	43
103	Silicon clathrates as anode materials for lithium ion batteries?. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7782.	10.3	42
104	Synthesis of Atomically Thin Hexagonal Diamond with Compression. <i>Nano Letters</i> , 2020, 20, 5916-5921.	9.1	42
105	Turning on Zn 4s Electrons in a Zn^{2+} Configuration to Stimulate Remarkable ORR Performance. <i>Angewandte Chemie</i> , 2021, 133, 183-187.	2.0	42
106	Superconductivity in FeH_5 FeH_5 <i>Physical Review B</i> , 2017, 96, .	3.2	41
107	Novel high pressure phase of silica. <i>Physical Review Letters</i> , 1992, 69, 3647-3649.	7.8	40
108	Evidence from molecular dynamics simulations for non-metallic behaviour of solid hydrogen above 160 GPa. <i>Nature</i> , 1995, 378, 595-597.	27.8	40

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109	The isotope effect and orientational potentials of methane molecules in gas hydrates. Journal of Chemical Physics, 2001, 114, 4160-4170.	3.0	40
110	Fine Tuning the Performance of Multiorbital Radical Conductors by Substituent Effects. Journal of the American Chemical Society, 2017, 139, 1625-1635.	13.7	40
111	Computer simulations of the dynamics of doubly occupied N2 clathrate hydrates. Journal of Chemical Physics, 2002, 117, 6637-6645.	3.0	39
112	Phase Stability and Broken-Symmetry Transition of Elemental Lithium up to 140 GPa. ChemPhysChem, 2005, 6, 1703-1706.	2.1	39
113	Crystal and electronic structure of superhard BC_5 . First-principles structural optimizations. Physical Review B, 2009, 80, .	3.2	39
114	Metallization of a Hypervalent Radical Dimer: Molecular and Band Perspectives. Journal of the American Chemical Society, 2010, 132, 4876-4886.	13.7	39
115	Thermoelectric and electrical transport properties of Mg ₂ Si multi-doped with Sb, Al and Zn. Journal of Materials Chemistry A, 2015, 3, 19774-19782.	10.3	39
116	Unusual Li-Ion Transfer Mechanism in Liquid Electrolytes: A First-Principles Study. Journal of Physical Chemistry Letters, 2016, 7, 4795-4801.	4.6	39
117	Melting and High P - T Transitions of Hydrogen up to 300 ÅGPa. Physical Review Letters, 2017, 119, 075302.	3.2	39
118	A variable energy photoelectron study of the valence levels and I 4d core levels of CF3I. Journal of Chemical Physics, 1986, 85, 3840-3850.	3.0	38
119	Comments on "Further evidence for the existence of two kinds of H-bonds in ice Ih" by Li et al. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 198, 464-466.	2.1	38
120	Layered polysilane: thermolysis and photoluminescence. Journal of Materials Chemistry, 1998, 8, 705-710.	6.7	38
121	Quantum rotations in natural methane-clathrates from the Pacific sea-floor. Europhysics Letters, 1999, 48, 269-275.	2.0	38
122	Formation and Decomposition Mechanisms for Clathrate Hydrates. Journal of Supramolecular Chemistry, 2002, 2, 467-472.	0.4	38
123	Soft X-ray Induced Photoreduction of Organic Cu(II) Compounds Probed by X-ray Absorption Near-Edge (XANES) Spectroscopy. Analytical Chemistry, 2011, 83, 7856-7862.	6.5	38
124	Tunable Excitonic Processes at Organic Heterojunctions. Advanced Materials, 2016, 28, 649-654.	21.0	38
125	Engineering the synergistic effect of carbon dots-stabilized atomic and subnanometric ruthenium as highly efficient electrocatalysts for robust hydrogen evolution. SmartMat, 2022, 3, 249-259.	10.7	38
126	Pressure induced amorphization of ice Ih. Journal of Chemical Physics, 1990, 92, 3992-3994.	3.0	37

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127	The Metallic State in Neutral Radical Conductors: Dimensionality, Pressure and Multiple Orbital Effects. Journal of the American Chemical Society, 2015, 137, 14136-14148.	13.7	37
128	Superconductivity in dense carbon-based materials. Physical Review B, 2016, 93, .	3.2	37
129	Encapsulation of Silicon Nanoclusters in Zeolite Y. Journal of the American Chemical Society, 1998, 120, 10697-10705.	13.7	36
130	Ab Initio Studies on Al+(H ₂ O) _n , HAlOH+(H ₂ O) _{n-1} , and the Size-Dependent H ₂ Elimination Reaction. Journal of the American Chemical Society, 2002, 124, 10846-10860.	13.7	36
131	Spin localization, magnetic ordering, and electronic properties of strongly correlated L_nO_3 sesquioxides (L=n=La, Ce, Pr, Nd). Physical Review B, 2018, 97, .	3.2	36
132	Dynamical Properties and Stability of Clathrate Hydrates. Annals of the New York Academy of Sciences, 1994, 715, 187-206.	3.8	35
133	An ESR study of the reaction of aluminum atoms with 1,3-butadiene: cheletropic cycloaddition and substituted allyl formation. Journal of the American Chemical Society, 1985, 107, 7290-7294.	13.7	34
134	X-ray Raman scattering at the Ledges of elemental Na, Si, and the Nedge of Ba in Ba ₈ Si ₄₆ . Physical Review B, 2005, 72, .	3.2	34
135	Experimental and theoretical shake-up studies. The rare gases. Physical Review A, 1982, 25, 1-6.	2.5	33
136	Origin of Low-Frequency Local Vibrational Modes in High Density Amorphous Ice. Physical Review Letters, 2000, 85, 3185-3188.	7.8	33
137	Effects of Temperature and Pressure on ZDDP. Tribology Letters, 2007, 28, 45-49.	2.6	33
138	Origin of pressure-induced crystallization of Ce ₇₅ Al ₂₅ metallic glass. Nature Communications, 2015, 6, 6493.	12.8	33
139	Phonon band structures and resonant scattering in Na ₈ Si ₄₆ and Cs ₈ Sn ₄₄ clathrates. Europhysics Letters, 2001, 56, 261-267.	2.0	32
140	Superconducting Hydrogen Sulfide. Chemistry - A European Journal, 2018, 24, 1769-1778.	3.3	32
141	Characterization of the intermediates formed in the reaction of Al atoms with H ₂ O, H ₂ S and H ₂ Se by EPR spectroscopy. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 3145.	1.7	31
142	Experimental and theoretical shakeup studies. III. The 1s shakeup in CH ₄ , NH ₃ , and H ₂ O. Journal of Chemical Physics, 1980, 72, 4291-4299.	3.0	30
143	Synergetic effect of Re and Ru on γ/γ' interface strengthening of Ni-base single crystal superalloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 360, 197-201.	5.6	30
144	Raman scattering in hcp rare gas solids under pressure. Physical Review B, 2008, 78, .	3.2	30

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145	Isostructural Bis-1,2,3-Thiaselenazolyl Dimers. <i>Inorganic Chemistry</i> , 2009, 48, 9874-9882.	4.0	30
146	Shape resonances above the Si 2p threshold in SiF ₄ . <i>Journal of Chemical Physics</i> , 1986, 84, 5-9.	3.0	29
147	Elastic moduli and instability in molecular crystals. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 5853-5865.	1.8	29
148	Electronic and phonon instabilities in face-centered-cubic alkali metals under pressure studied using ab initio calculations. <i>Physical Review B</i> , 2007, 75, .	3.2	28
149	Crystal structures and dynamical properties of dense CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11110-11115.	7.1	28
150	The Three Isomers of Protonated Ethane, C ₂ H ₇ ⁺ . <i>Journal of Physical Chemistry A</i> , 1998, 102, 10903-10911.	2.5	27
151	A first-principles survey of $\hat{\Gamma}^3/\hat{\Gamma}^3\hat{\Gamma}^2$ interface strengthening by alloying elements in single crystal Ni ^{base} superalloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 365, 80-84.	5.6	27
152	Superconducting high-pressure phase of cesium iodide. <i>Physical Review B</i> , 2009, 79, .	3.2	27
153	Theoretical and experimental shake-up studies on the xenon core level ESCA of xenon difluoride. <i>Inorganic Chemistry</i> , 1979, 18, 1766-1771.	4.0	26
154	Electronic structure of square-planar cis-bis(trifluoromethyl)platinum(II) complexes from UV photoelectron spectra and SCF-MS-X.alpha. calculations. <i>Inorganic Chemistry</i> , 1990, 29, 2496-2501.	4.0	26
155	The longitudinal $\hat{\Gamma}$ optical $\hat{\Gamma}$ transverse $\hat{\Gamma}$ optical mode splitting in ice Ih. <i>Journal of Chemical Physics</i> , 1991, 95, 7011-7012.	3.0	26
156	Gas-phase nuclear magnetic relaxation in ¹²⁹ Xe revisited. <i>Journal of Chemical Physics</i> , 2001, 114, 2173-2181.	3.0	26
157	Perspectives on Hydrate Thermal Conductivity. <i>Energies</i> , 2010, 3, 1934-1942.	3.1	26
158	Resonant enhancement in the valence orbital photoionization cross sections of xenon difluoride. <i>Journal of Chemical Physics</i> , 1988, 89, 920-928.	3.0	25
159	Anomalous Isostructural Transformation in Ice VIII. <i>Physical Review Letters</i> , 1998, 81, 2466-2469.	7.8	25
160	Thermodynamic Discontinuity between Low-Density Amorphous Ice and Supercooled Water. <i>Physical Review Letters</i> , 2002, 88, 155502.	7.8	25
161	A chemical perspective on high pressure crystal structures and properties. <i>National Science Review</i> , 2020, 7, 149-169.	9.5	25
162	High-resolution helium(He I and He II) photoelectron spectra of titanium tetrachloride, tin tetrachloride, and tetramethyltin. <i>Inorganic Chemistry</i> , 1982, 21, 2950-2955.	4.0	24

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163	Effective pair potentials and the structure of ices VIII and IX. <i>Journal of Chemical Physics</i> , 1984, 81, 6406-6407.	3.0	24
164	Crystal structure and infrared spectra of an inclusion compound of cyclotrimeratrylene and water. <i>Canadian Journal of Chemistry</i> , 1985, 63, 3258-3263.	1.1	24
165	Electronic structure of cis-dimethylplatinum(II) complexes from UV photoelectron spectra and SCF-MS-X.alpha. calculations. <i>Inorganic Chemistry</i> , 1990, 29, 2487-2495.	4.0	24
166	Pressure-induced phase transformations in the Ba ₈ Si ₄ Cl ₆ clathrate. <i>Physical Review B</i> , 2006, 74, .	3.2	24
167	Dynamical Properties of Hydrogen Sulphide Motion in its Clathrate Hydrate from Ab Initio and Classical Isothermal Molecular Dynamics. <i>Journal of Physical Chemistry A</i> , 2011, 115, 6226-6232.	2.5	24
168	Electronic structure of carbon dioxide under pressure and insights into the molecular-to-nonmolecular transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18402-18406.	7.1	24
169	Dihydrogen Bonding in Compressed Ammonia Borane and Its Roles in Structural Stability. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29591-29598.	3.1	24
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