

Ram Seshadri

List of Publications by Year in descending order

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5891

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docs citations

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times ranked

26318
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing the Role of Bi 6s Lone Pairs in the Off-Center Distortion in Ferromagnetic BiMnO ₃ . Chemistry of Materials, 2001, 13, 2892-2899.	3.2	734
2	Phosphors for Solid-State White Lighting. Annual Review of Materials Research, 2013, 43, 481-501.	4.3	689
3	Ordered Mesoporous Metallic MoO ₂ Materials with Highly Reversible Lithium Storage Capacity. Nano Letters, 2009, 9, 4215-4220.	4.5	650
4	Crystal Structure and the Paraelectric-to-Ferroelectric Phase Transition of Nanoscale BaTiO ₃ . Journal of the American Chemical Society, 2008, 130, 6955-6963.	6.6	509
5	The role of magnesium in stabilising amorphous calcium carbonate and controlling calcite morphologies. Journal of Crystal Growth, 2003, 254, 206-218.	0.7	506
6	$V_{Cs} = A \frac{Z}{Z^2}$: A Physical Review Letters, 2020, 125, 247002.	2.9	468
7	Absence of ferromagnetism in Co and Mn substituted polycrystalline ZnO. Physical Review B, 2005, 71, .	1.1	442
8	Crystal and Electronic Structures of Complex Bismuth Iodides $A_3Bi_2I_9$ ($A = K, Rb, Cs$) Related to Perovskite: Aiding the Rational Design of Photovoltaics. Chemistry of Materials, 2015, 27, 7137-7148.	3.2	413
9	New Type of 2D Perovskites with Alternating Cations in the Interlayer Space, $(C(NH_2)_3)(CH_3NH_3)PbI_3$. Structure, Properties, and Photovoltaic Performance. Journal of the American Chemical Society, 2017, 139, 16297-16309.	6.6	374
10	Data-Driven Review of Thermoelectric Materials: Performance and Resource Considerations. Chemistry of Materials, 2013, 25, 2911-2920.	3.2	366
11	SYNTHESIS ROUTES FOR LARGE VOLUMES OF NANOPARTICLES. Annual Review of Materials Research, 2004, 34, 41-81.	4.3	326
12	Consequences of Optimal Bond Valence on Structural Rigidity and Improved Luminescence Properties in $Sr_xBa_{2-x}SiO_4:Eu^{2+}$ Orthosilicate Phosphors. Chemistry of Materials, 2014, 26, 2275-2282.	3.2	323
13	Efficient and Color-Tunable Oxyfluoride Solid Solution Phosphors for Solid-State White Lighting. Advanced Materials, 2011, 23, 2300-2305.	11.1	311
14	Magnetism in polycrystalline cobalt-substituted zinc oxide. Physical Review B, 2003, 68, .	1.1	304
15	First-principles indicators of metallicity and cation off-centricity in the IV-VI rocksalt chalcogenides of divalent Ge, Sn, and Pb. Physical Review B, 2003, 67, .	1.1	299
16	Superconductivity in the Z kagome metal	0.9	280
17	KV_3 Structure and Bonding in SnWO ₄ , PbWO ₄ , and BiVO ₄ : Lone Pairs vs Inert Pairs. Inorganic Chemistry, 2007, 46, 3839-3850.	1.9	279
18	Covalent bonding and the nature of band gaps in some half-Heusler compounds. Journal Physics D: Applied Physics, 2006, 39, 776-785.	1.3	262

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19	Sr _{2.975} Ba _x Ce _{0.025} AlO ₄ F: a Highly Efficient Green-Emitting Oxyfluoride Phosphor for Solid State White Lighting. Chemistry of Materials, 2010, 22, 2842-2849.	3.2	227
20	Oxide and chalcogenide nanoparticles from hydrothermal/solvothermal reactions. Current Opinion in Solid State and Materials Science, 2002, 6, 337-345.	5.6	219
21	Dynamic Stereochemical Activity of the Sn ²⁺ Lone Pair in Perovskite CsSnBr ₃ . Journal of the American Chemical Society, 2016, 138, 11820-11832.	6.6	217
22	Local Environments of Dilute Activator Ions in the Solid-State Lighting Phosphor Y ₃ Ce _x Al ₅ O ₁₂ . Chemistry of Materials, 2013, 25, 3979-3995.	3.2	208
23	Robust thermal performance of Sr ₂ Si ₅ N ₈ :Eu ²⁺ : An efficient red emitting phosphor for light emitting diode based white lighting. Applied Physics Letters, 2011, 99, .	1.5	202
24	Materials science with large-scale data and informatics: Unlocking new opportunities. MRS Bulletin, 2016, 41, 399-409.	1.7	192
25	Hard Materials with Tunable Porosity. MRS Bulletin, 2009, 34, 561-568.	1.7	189
26	Dielectric anomalies and spiral magnetic order in CoCr ₂ O ₄ . Physical Review B, 2006, 74, .	1.1	186
27	LaSr ₂ AlO ₅ , a Versatile Host Compound for Ce ³⁺ -Based Yellow Phosphors: Structural Tuning of Optical Properties and Use in Solid-State White Lighting. Chemistry of Materials, 2009, 21, 2957-2966.	3.2	180
28	Proxies from Ab Initio Calculations for Screening Efficient Ce ³⁺ Phosphor Hosts. Journal of Physical Chemistry C, 2013, 117, 17955-17959.	1.5	176
29	Design Principles for Enhancing Photoluminescence Quantum Yield in Hybrid Manganese Bromides. Journal of the American Chemical Society, 2020, 142, 13582-13589.	6.6	173
30	Rapid Microwave Preparation of Highly Efficient Ce ³⁺ -Substituted Garnet Phosphors for Solid State White Lighting. Chemistry of Materials, 2012, 24, 1198-1204.	3.2	172
31	Manganese oxidation as the origin of the anomalous capacity of Mn-containing Li-excess cathode materials. Nature Energy, 2019, 4, 639-646.	19.8	164
32	Average and Local Structure, Debye Temperature, and Structural Rigidity in Some Oxide Compounds Related to Phosphor Hosts. ACS Applied Materials & Interfaces, 2015, 7, 7264-7272.	4.0	159
33	A yellow-emitting Ce ³⁺ phosphor, La _{1-x} Ce _x Sr ₂ AlO ₅ , for white light-emitting diodes. Applied Physics Letters, 2008, 93, .	1.5	158
34	Polymorphism in nickel hydroxide: role of interstratification. Journal of Materials Chemistry, 2000, 10, 503-506.	6.7	157
35	Templated growth of calcite, vaterite and aragonite crystals on self-assembled monolayers of substituted alkythiols on gold. Journal of Materials Chemistry, 1998, 8, 641-650.	6.7	153
36	Efficient and stable laser-driven white lighting. AIP Advances, 2013, 3, .	0.6	151

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37	Magnetodielectric coupling in Mn_3O_4 . <i>Physical Review B</i> , 2007, 76, .	1.1	150
38	Chemical and Structural Diversity of Hybrid Layered Double Perovskite Halides. <i>Journal of the American Chemical Society</i> , 2019, 141, 19099-19109.	6.6	144
39	Templated Crystallisation of Calcium and Strontium Carbonates on Centred Rectangular Self-Assembled Monolayer Substrates. <i>Chemistry - A European Journal</i> , 1998, 4, 1834-1842.	1.7	137
40	Ab Initio Structure Search and in Situ ^7Li NMR Studies of Discharge Products in the Li^{S} Battery System. <i>Journal of the American Chemical Society</i> , 2014, 136, 16368-16377.	6.6	132
41	Unraveling the Chemical Nature of the 3D "Hollow" Hybrid Halide Perovskites. <i>Journal of the American Chemical Society</i> , 2018, 140, 5728-5742.	6.6	132
42	Fullerenes, nanotubes, onions and related carbon structures. <i>Materials Science and Engineering Reports</i> , 1995, 15, 209-262.	14.8	129
43	Universal Dynamics of Molecular Reorientation in Hybrid Lead Iodide Perovskites. <i>Journal of the American Chemical Society</i> , 2017, 139, 16875-16884.	6.6	129
44	Reentrant Structural and Optical Properties and Large Positive Thermal Expansion in Perovskite Formamidinium Lead Iodide. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15392-15396.	7.2	128
45	Crystal Structure Evolution and Notable Thermal Expansion in Hybrid Perovskites Formamidinium Tin Iodide and Formamidinium Lead Bromide. <i>Inorganic Chemistry</i> , 2018, 57, 695-701.	1.9	128
46	Multiple Redox Modes in the Reversible Lithiation of High-Capacity, Peierls-Distorted Vanadium Sulfide. <i>Journal of the American Chemical Society</i> , 2015, 137, 8499-8508.	6.6	127
47	Rapid Microwave Preparation of Thermoelectric TiNiSn and TiCoSb Half-Heusler Compounds. <i>Chemistry of Materials</i> , 2012, 24, 2558-2565.	3.2	126
48	Electronic structure and photovoltaic application of BiI_3 . <i>Applied Physics Letters</i> , 2015, 107, .	1.5	125
49	Fermi Surface Mapping and the Nature of Charge-Density-Wave Order in the Kagome Superconductor CsV_3Sb_5 . <i>Physical Review X</i> , 2021, 11, .	2.8	122
50	Stable, Heat-Conducting Phosphor Composites for High-Power Laser Lighting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5673-5681.	4.0	121
51	$\text{VO}_2(\text{B})$ nanorods: solvothermal preparation, electrical properties, and conversion to rutile VO_2 and V_2O_3 . <i>Journal of Materials Chemistry</i> , 2009, 19, 4362.	6.7	117
52	Ab Initio Calculations of Band Gaps and Absolute Band Positions of Polymorphs of RbPbI_3 and CsPbI_3 : Implications for Main-Group Halide Perovskite Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27721-27727.	1.5	117
53	Anti-Polarity in Ideal BiMnO_3 . <i>Journal of the American Chemical Society</i> , 2007, 129, 9854-9855.	6.6	115
54	Unraveling Atomic Positions in an Oxide Spinel with Two Jahn-Teller Ions: Local Structure Investigation of CuMn_2O_4 . <i>Journal of the American Chemical Society</i> , 2009, 131, 11450-11457.	6.6	115

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55	Zinc oxide-based diluted magnetic semiconductors. <i>Current Opinion in Solid State and Materials Science</i> , 2005, 9, 1-7.	5.6	114
56	Preparation of magnetic spinel ferrite core/shell nanoparticles: Soft ferrites on hard ferrites and vice versa. <i>Solid State Sciences</i> , 2006, 8, 1015-1022.	1.5	113
57	Improving the thermoelectric properties of half-Heusler TiNiSn through inclusion of a second full-Heusler phase: microwave preparation and spark plasma sintering of TiNi _{1-x} Sn. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6990.	1.3	112
58	Porous gold structures through templating by echinoid skeletal plates. <i>Chemical Communications</i> , 2000, , 29-30.	2.2	111
59	Chemical synthesis of γ -cobalt hydroxide. <i>Materials Research Bulletin</i> , 2000, 35, 271-278.	2.7	106
60	A green-yellow emitting oxyfluoride solid solution phosphor Sr ₂ Ba(AlO ₄ F) _{1-x} (SiO ₅) _x :Ce ³⁺ for thermally stable, high color rendition solid state white lighting. <i>Journal of Materials Chemistry</i> , 2012, 22, 18204.	6.7	105
61	Temperature-Dependent Polarization in Field-Effect Transport and Photovoltaic Measurements of Methylammonium Lead Iodide. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3565-3571.	2.1	105
62	Average and Local Structural Origins of the Optical Properties of the Nitride Phosphor La _{3-x} Ce _x Si ₆ N ₁₁ (0 < x < 3). <i>Inorganic Chemistry</i> , 2013, 52, 13730-13741.	1.9	103
63	Dielectric and Thermodynamic Signatures of Low-Temperature Glassy Dynamics in the Hybrid Perovskites CH ₃ NH ₃ Pb ₃ and HC(NH ₂) ₂ Pb ₃ . <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 376-381.	2.1	102
64	Colloid-Bound Catalysts for Ring-Opening Metathesis Polymerization: A Combination of Homogenous and Heterogeneous Properties. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2466-2468.	7.2	100
65	High Temperature Magnetic Ordering in the SrTcO_3 Perovskite <i>Physical Review Letters</i> , 2011, 106, 067201	2.9	99
66	Local Atomic Ordering in BaTaO ₂ N Studied by Neutron Pair Distribution Function Analysis and Density Functional Theory. <i>Chemistry of Materials</i> , 2007, 19, 4037-4042.	3.2	96
67	Probing Local Dipoles and Ligand Structure in BaTiO ₃ Nanoparticles. <i>Chemistry of Materials</i> , 2010, 22, 4386-4391.	3.2	96
68	Spin-induced symmetry breaking in orbitally ordered NiCr ₂ O ₄ and CuCr ₂ S ₄ NiCr_2O_4 and CuCr_2S_4	1.1	95
69	Spinel Ferrite/MnO Core/Shell Nanoparticles: A Chemical Synthesis of All-Oxide Exchange Biased Architectures. <i>Journal of the American Chemical Society</i> , 2005, 127, 9354-9355.	6.6	94
70	Wurtzite CoO. <i>Chemistry of Materials</i> , 2005, 17, 834-838.	3.2	94
71	Sulfur-Functionalized Mesoporous Carbons as Sulfur Hosts in Li-S Batteries: Increasing the Affinity of Polysulfide Intermediates to Enhance Performance. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10908-10916.	4.0	94
72	A High Capacity Calcium Primary Cell Based on the Ca-S System. <i>Advanced Energy Materials</i> , 2013, 3, 1056-1061.	10.2	93

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73	Chemical tuning of dynamic cation off-centering in the cubic phases of hybrid tin and lead halide perovskites. <i>Chemical Science</i> , 2017, 8, 5628-5635.	3.7	93
74	The underappreciated lone pair in halide perovskites underpins their unusual properties. <i>MRS Bulletin</i> , 2020, 45, 467-477.	1.7	93
75	A Pd-doped perovskite catalyst, $\text{BaCe}_{1-x}\text{Pd}_x\text{O}_3$, for CO oxidation. <i>Journal of Catalysis</i> , 2007, 249, 349-358.	3.1	91
76	Giant Negative Magnetoresistance in GdI ₂ : Prediction and Realization. <i>Journal of Solid State Chemistry</i> , 1999, 147, 19-25.	1.4	90
77	Phase Transitions in the Anchored Organic Bilayers of Long-Chain Alkylammonium Lead Iodides ($\text{C}_n\text{H}_{2n+1}\text{NH}_3$) ₂ PbI ₄ ; n= 12, 16, 18. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1875-1883.	1.2	90
78	Direct observation of the structure of gold nanoparticles by total scattering powder neutron diffraction. <i>Chemical Physics Letters</i> , 2004, 393, 385-388.	1.2	89
79	A solvothermal route to capped nanoparticles of Fe_3O_4 and CoFe_2O_4 . <i>Journal of Materials Chemistry</i> , 2001, 11, 3215-3221.	6.7	87
80	Interaction of C ₆₀ and C ₇₀ with aromatic amines in the ground and excited states. Evidence for fullerene-benzene interaction in the ground state. <i>Chemical Physics Letters</i> , 1993, 205, 395-398.	1.2	84
81	An Efficient, Thermally Stable Cerium-Based Silicate Phosphor for Solid State White Lighting. <i>Inorganic Chemistry</i> , 2013, 52, 8010-8016.	1.9	84
82	Electronic structure, magnetism and disorder in the Heusler compound Co_2TiSn . <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1587-1592.	1.3	83
83	Local Structural Origins of the Distinct Electronic Properties of Nb-Substituted SrTiO_3 and BaTiO_3 . <i>Physical Review Letters</i> , 2008, 101, 205502.	2.9	81
84	Electronic structures and instabilities of ZrNCl and HfNCl : implications for superconductivity in the doped compounds. <i>Journal of Materials Chemistry</i> , 1999, 9, 459-464.	6.7	80
85	The Role of Backbone Polarity on Aggregation and Conduction of Ions in Polymer Electrolytes. <i>Journal of the American Chemical Society</i> , 2020, 142, 7055-7065.	6.6	80
86	Macroporous Manganese Oxides with Regenerative Mesopores. <i>Journal of the American Chemical Society</i> , 2006, 128, 1462-1463.	6.6	78
87	Controlled Reduction of Vanadium Oxide Nanoscrolls: Crystal Structure, Morphology, and Electrical Properties. <i>Chemistry of Materials</i> , 2008, 20, 6396-6404.	3.2	78
88	Possible Superhardness of CrB_4 . <i>Inorganic Chemistry</i> , 2013, 52, 540-542.	1.9	78
89	A protected annealing strategy to enhanced light emission and photostability of YAG:Ce nanoparticle-based films. <i>Nanoscale</i> , 2011, 3, 2015.	2.8	77
90	Dynamics of charge transfer in the excited amine complexes of the fullerenes C ₆₀ and C ₇₀ . <i>Chemical Physics Letters</i> , 1992, 198, 113-117.	1.2	75

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91	La _{1-x} Ce _{0.025} Sr _{2+x} Al _{1-x} Si ₆ O ₅ solid solutions as tunable yellow phosphors for solid state white lighting. Journal of Materials Chemistry, 2009, 19, 1325.	6.7	75
92	Bioskeletons as Templates for Ordered, Macroporous Structures. Advanced Materials, 2000, 12, 1149-1151.	11.1	74
93	Hexagonal YFe _{1-x} Pd _x O ₃ : Nonperovskite Host Compounds for Pd ²⁺ and Their Catalytic Activity for CO Oxidation. Chemistry of Materials, 2008, 20, 6567-6576.	3.2	74
94	Fermi level tuning and double-dome superconductivity in the kagome metal CsV ₃ Sb ₅ Sn ₂ . Physical Review Materials, 2022, 6, .	0.9	74
95	Magnetic phase evolution in the spinel compounds Zn _{1-x} Co _x Cr ₂ O ₄ . Journal of Physics Condensed Matter, 2009, 21, 216007.	0.7	72
96	Phase stability and property evolution of biphasic Ti _{1-x} Ni _x Sn alloys for use in thermoelectric applications. Journal of Applied Physics, 2014, 115, .	1.1	72
97	Mercaptophenol-Protected Gold Colloids as Nuclei for the Crystallization of Inorganic Minerals: A Templated Crystallization on Curved Surfaces. Chemistry of Materials, 1999, 11, 1317-1325.	3.2	71
98	Experimental and computational investigation of structure and magnetism in pyrite Co _{1-x} Fe _x S ₂ : Chemical bonding and half-metallicity. Physical Review B, 2004, 70, .	1.1	70
99	Molybdenum Polysulfide Chalcogels as High-Capacity, Anion-Redox-Driven Electrode Materials for Li-Ion Batteries. Chemistry of Materials, 2016, 28, 8357-8365.	3.2	69
100	Structural Evolution and Electronic Properties of La _{1-x} Sr _{2-x} Mn ₂ O ₇ . Chemistry of Materials, 1997, 9, 270-277.	3.2	68
101	Metal-Metal Bonding and Metallic Behavior in Some ABO ₂ Delafossites. Chemistry of Materials, 1998, 10, 2189-2196.	3.2	68
102	Reciprocal-space and real-space neutron investigation of nanostructured Mo ₂ C and WC. Solid State Sciences, 2008, 10, 1499-1510.	1.5	68
103	Conformation and orientation of alkyl chains in the layered organic-inorganic hybrids: (C _n H _{2n+1} NH ₃) ₂ PbI ₄ (n=12,16,18). Physical Chemistry Chemical Physics, 2002, 4, 4533-4538.	1.3	67
104	Magnetocapacitance as a sensitive probe of magnetostructural changes in NiCr ₂ Mo ₄ . Physical Review B, 2014, 89, .	0.7	67
105	Correlating Local Compositions and Structures with the Macroscopic Optical Properties of Ce ³⁺ -Doped CaSc ₂ O ₄ , an Efficient Green-Emitting Phosphor. Chemistry of Materials, 2017, 29, 3538-3546.	3.2	66
106	Preparation of indium nitride micro- and nanostructures by ammonolysis of indium oxide. Journal of Materials Chemistry, 2004, 14, 637.	6.7	65
107	Organic Cation Alloying on Intralayer A and Interlayer A TM sites in 2D Hybrid Dion-Jacobson Lead Bromide Perovskites (A TM)(A)Pb ₂ Br ₇ . Journal of the American Chemical Society, 2020, 142, 8342-8351.	6.6	64
108	Lone pairs in insulating pyrochlores: Ice rules and high-k behavior. Solid State Sciences, 2006, 8, 259-266.	1.5	63

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109	Structure-Directing Roles and Interactions of Fluoride and Organocations with Siliceous Zeolite Frameworks. <i>Journal of the American Chemical Society</i> , 2011, 133, 18728-18741.	6.6	63
110	Growth of Nanometric Gold Particles in Solution Phase. <i>The Journal of Physical Chemistry</i> , 1995, 99, 5639-5644.	2.9	62
111	A Solvothermal Route to High-Surface-Area Nanostructured MoS ₂ . <i>Chemistry of Materials</i> , 2003, 15, 4498-4502.	3.2	62
112	Enhanced thermoelectric properties of bulk TiNiSn via formation of a TiNi ₂ Sn second phase. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	62
113	Perovskite-related ReO ₃ -type structures. <i>Nature Reviews Materials</i> , 2020, 5, 196-213.	23.3	62
114	An ab-initio study of the role of lone pairs in the structure and insulator-metal transition in SnO and PbO. <i>Solid State Sciences</i> , 2002, 4, 467-474.	1.5	61
115	Infinite Polyiodide Chains in the Pyrroloperylene-Iodine Complex: Insights into the Starch-Iodine and Perylene-Iodine Complexes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8032-8035.	7.2	61
116	High Sulfur Content Material with Stable Cycling in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15118-15122.	7.2	61
117	Spontaneous Formation of Macroporous Monoliths of Mesoporous Manganese Oxide Crystals. <i>Advanced Materials</i> , 2005, 17, 2244-2246.	11.1	60
118	Transport in ferromagnetic GdTiO ₃ /SrTiO ₃ heterostructures. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	60
119	Study of the Layered Magnetoresistive Perovskite La _{1.2} Sr _{1.8} Mn ₂ O ₇ by High-Resolution Electron Microscopy and Synchrotron X-ray Powder Diffraction. <i>Chemistry of Materials</i> , 1997, 9, 1778-1787.	3.2	59
120	Synchrotron x-ray study of polycrystalline wurtzite Zn _{1-x} Mg _x O (0 ≤ x ≤ 0.15): Evolution of crystal structure and polarization. <i>Applied Physics Letters</i> , 2007, 90, 101904.	1.5	59
121	A solvothermal route to capped CdSe nanoparticles. <i>Chemical Communications</i> , 2001, , 629-630.	2.2	58
122	Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. <i>Progress in Solid State Chemistry</i> , 2008, 36, 1-133.	3.9	58
123	Kinetic Control of Intralayer Cobalt Coordination in Layered Hydroxides: Co ^{0.5} _{oct} Co ¹ _{tet} (OH) ₂ (Cl) _{0.5} . <i>Inorganic Chemistry</i> , 2009, 48, 11017-11023.		
124	A Simple Computational Proxy for Screening Magnetocaloric Compounds. <i>Chemistry of Materials</i> , 2017, 29, 1613-1622.	3.2	58
125	Addition of amines and halogens to fullerenes C ₆₀ and C ₇₀ . <i>Tetrahedron Letters</i> , 1992, 33, 2069-2070.	0.7	57
126	Energy Landscape of Molecular Motion in Cubic Methylammonium Lead Iodide from First-Principles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12403-12410.	1.5	57

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127	Ln ₂ Ti ₂ S ₂ O ₅ (Ln = Nd, Pr, Sm): a novel series of defective Ruddlesden-Popper phases. Chemical Communications, 1999, , 979-980.	2.2	56
128	Complex magnetotransport in LaSr ₂ Mn ₂ O ₇ . Solid State Communications, 1997, 101, 453-457.	0.9	55
129	First-principles electronic structure of the delafossites ABO ₂ (A=Cu, Ag, Au; B=Al, Ga, Sc, In, Y): evolution of d ₁₀ -d ₁₀ interactions. Solid State Sciences, 2002, 4, 1045-1052.	1.5	55
130	Evolution of local structures in polycrystalline $ZnMgO$		

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145	Molecular ferromagnetism in C60-TDAE. Solid State Communications, 1993, 85, 971-974.	0.9	46
146	Monothiol derived from glycols as agents for stabilizing gold colloids in water: synthesis, self-assembly and use as crystallization templates. Journal of Materials Chemistry, 1999, 9, 1121-1125.	6.7	46
147	BaCe _{1-x} Pd _x O ₃ ·(0.1) Redox Controlled Ingress and Egress of Palladium in a Perovskite. Chemistry of Materials, 2007, 19, 1418-1426.	3.2	46
148	Local structures of polar wurtzites Zn by Raman and display="inline"><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mrow><mml:mtext>Zn</mml:mtext></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:msub></mml:mrow></mml:math>	1.1	46
149	Nanoscale Iron Nitride, $\mu\text{-Fe}_3\text{N}$: Preparation from Liquid Ammonia and Magnetic Properties. Chemistry of Materials, 2017, 29, 621-628.	3.2	46
150	Optical Properties of Cation-Substituted Zinc Oxide. Inorganic Chemistry, 2008, 47, 8437-8443.	1.9	45
151	Semiconducting half-Heusler and LiGaGe structure type compounds. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1090-1095.	0.8	45
152	Real-Space Investigation of Structural Changes at the Metal-Insulator Transition in VO_2 . Physical Review Letters, 2010, 105, 056404.	2.9	45
153	Structure-composition relationships and optical properties in cerium-substituted (Sr,Ba) ₃ (Y,La)(BO ₃) ₃ borate phosphors. Journal of Materials Chemistry C, 2013, 1, 7339.	2.7	45
154	Main-Group Halide Semiconductors Derived from Perovskite: Distinguishing Chemical, Structural, and Electronic Aspects. Inorganic Chemistry, 2017, 56, 11-25.	1.9	45
155	Ion Transport in Dynamic Polymer Networks Based on Metal-Ligand Coordination: Effect of Cross-Linker Concentration. Macromolecules, 2018, 51, 2017-2026.	2.2	45
156	Template-Free Routes to Macroporous Monoliths of Nickel and Iron Oxides: Toward Porous Metals and Conformally Coated Pore Walls. Chemistry of Materials, 2005, 17, 2142-2147.	3.2	44
157	<i>N</i> -Alkyldinaphthocarbazoles, Azaheptacenes, for Solution-Processed Organic Field-Effect Transistors. Journal of the American Chemical Society, 2012, 134, 18185-18188.	6.6	44
158	Nanoscale structural heterogeneity in Ni-rich half-Heusler TiNiSn. Journal of Applied Physics, 2014, 116, .	1.1	44
159	Substitution of oxygen by fluorine in the GdSr ₂ AlO ₅ :Ce ³⁺ phosphors: Gd _{1-x} Sr _{2+x} AlO _{5-x} F _x solid solutions for solid state white lighting. Optics Express, 2009, 17, 22673.	1.7	43
160	Decoupling Bulk Mechanics and Mono- and Multivalent Ion Transport in Polymers Based on Metal-Ligand Coordination. Chemistry of Materials, 2018, 30, 5759-5769.	3.2	43
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