Chintamani Nagesa Ramachandra Rao

List of Publications by Year
in descending order

1,470 papers	83,446 citations	355 136 h-index	1136 230 g-index
1549 all docs	1549 docs citations	1549 times ranked	58771 citing authors

#	Article	IF	Citations
1	Graphene: The New Twoâ€Dimensional Nanomaterial. Angewandte Chemie - International Edition, 2009, 48, 7752-7777.	7.2	3,668
2	Metal Carboxylates with Open Architectures. Angewandte Chemie - International Edition, 2004, 43, 1466-1496.	7.2	1,862
3	MoS₂ and WS₂ Analogues of Graphene. Angewandte Chemie - International Edition, 2010, 49, 4059-4062.	7.2	1,417
4	Ferromagnetism as a universal feature of nanoparticles of the otherwise nonmagnetic oxides. Physical Review B, 2006, 74, .	1.1	1,274
5	Structural diversity and chemical trends in hybrid inorganicâ€"organic framework materials. Chemical Communications, 2006, , 4780-4795.	2.2	1,005
6	Graphene-based electrochemical supercapacitors. Journal of Chemical Sciences, 2008, 120, 9-13.	0.7	758
7	Inorganic nanowires. Progress in Solid State Chemistry, 2003, 31, 5-147.	3.9	690
8	Graphene, the new nanocarbon. Journal of Materials Chemistry, 2009, 19, 2457.	6.7	686
9	Graphene Analogues of BN: Novel Synthesis and Properties. ACS Nano, 2010, 4, 1539-1544.	7.3	684
10	XPES studies of oxides of second- and third-row transition metals including rare earths. Journal of Electron Spectroscopy and Related Phenomena, 1980, 20, 25-45.	0.8	575
11	Synthesis, Structure, and Properties of Boronâ€•and Nitrogenâ€Doped Graphene. Advanced Materials, 2009, 21, 4726-4730.	11.1	569
12	A study of graphenes prepared by different methods: characterization, properties and solubilization. Journal of Materials Chemistry, 2008, 18, 1517.	6.7	538
13	Simple Method of Preparing Graphene Flakes by an Arc-Discharge Method. Journal of Physical Chemistry C, 2009, 113, 4257-4259.	1.5	527
14	Science and technology of nanomaterials: current status and future prospects. Journal of Materials Chemistry, 2001, 11, 2887-2894.	6.7	522
15	Size-Dependent Chemistry: Properties of Nanocrystals. Chemistry - A European Journal, 2002, 8, 28-35.	1.7	513
16	Structure, electron-transport properties, and giant magnetoresistance of hole-dopedLaMnO3systems. Physical Review B, 1996, 53, 3348-3358.	1.1	511
17	Binding of DNA Nucleobases and Nucleosides with Graphene. ChemPhysChem, 2009, 10, 206-210.	1.0	489
18	Graphene Analogues of Inorganic Layered Materials. Angewandte Chemie - International Edition, 2013, 52, 13162-13185.	7.2	441

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19	Highly Effective Visibleâ€Lightâ€Induced H₂ Generation by Singleâ€Layer 1Tâ€MoS₂ and a Nanocomposite of Fewâ€Layer 2Hâ€MoS₂ with Heavily Nitrogenated Graphene. Angewandte Chemie - International Edition, 2013, 52, 13057-13061.	7.2	438
20	Inorganic nanotubesThe illustration of John Dalton (reproduced courtesy of the Library and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 T which led to the determination of atomic weights for hydrogen, nitrogen, carbon, oxygen, phosphorus and sulfur.. Dalton Transactions, 2003, , 1-24.	1.6	398
21	Ferromagnetism as a universal feature of inorganic nanoparticles. Nano Today, 2009, 4, 96-106.	6.2	389
22	Effect of particle size on the giant magnetoresistance of La0.7Ca0.3MnO3. Applied Physics Letters, 1996, 68, 2291-2293.	1.5	382
23	Layerâ€dependent resonant Raman scattering of a few layer MoS₂. Journal of Raman Spectroscopy, 2013, 44, 92-96.	1.2	380
24	Aufbau Principle of Complex Open-Framework Structures of Metal Phosphates with Different Dimensionalities. Accounts of Chemical Research, 2001, 34, 80-87.	7.6	372
25	Synthesis, properties and applications of graphene doped with boron, nitrogen and other elements. Nano Today, 2014, 9, 324-343.	6.2	369
26	Nano-indentation studies on polymer matrix composites reinforced by few-layer graphene. Nanotechnology, 2009, 20, 125705.	1.3	368
27	Some Novel Attributes of Graphene. Journal of Physical Chemistry Letters, 2010, 1, 572-580.	2.1	362
28	Comparative Study of Potential Applications of Graphene, MoS₂, and Other Two-Dimensional Materials in Energy Devices, Sensors, and Related Areas. ACS Applied Materials & Interfaces, 2015, 7, 7809-7832.	4.0	362
29	Simple Synthesis of MoS2 and WS2 Nanotubes. Advanced Materials, 2001, 13, 283-286.	11.1	358
30	Giant Magnetoresistance and Related Properties of Rare-Earth Manganates and Other Oxide Systems. Chemistry of Materials, 1996, 8, 2421-2432.	3.2	342
31	There's Room in the Middle. Science, 2007, 318, 58-59.	6.0	337
32	Changes in the electronic structure and properties of graphene induced by molecular charge-transfer. Chemical Communications, 2008, , 5155.	2.2	333
33	Evidence for the likely occurrence of magnetoferroelectricity in the simple perovskite, BiMnO3. Solid State Communications, 2002, 122, 49-52.	0.9	332
34	Hydrothermal Synthesis of Organic Channel Structures:Â 1:1 Hydrogen-Bonded Adducts of Melamine with Cyanuric and Trithiocyanuric Acids. Journal of the American Chemical Society, 1999, 121, 1752-1753.	6.6	325
35	Infrared and Electronic Spectra of Rare Earth Perovskites: Ortho-Chromites, -Manganites and -Ferrites. Applied Spectroscopy, 1970, 24, 436-445.	1.2	313
36	MÃ¶ssbauer Studies of the High-Spin-Low-Spin Equilibria and the Localized-Collective Electron Transition in LaCoO3. Physical Review B, 1972, 6, 1021-1032.	1.1	313

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37	Metal Complexes of Organophosphate Esters and Open-Framework Metal Phosphates: Synthesis, Structure, Transformations, and Applications. Chemical Reviews, 2008, 108, 3549-3655.	23.0	311
38	Synthesis of metal oxide nanorods using carbon nanotubes as templates. Journal of Materials Chemistry, 2000, 10, 2115-2119.	6.7	306
39	Absence of ferromagnetism in Mn- and Co-doped ZnO. Journal of Materials Chemistry, 2005, 15, 573.	6.7	304
40	The C=S stretching frequency and the â€œ-N-C=S bandsâ€•in the infrared. Spectrochimica Acta, 1962, 18, 541-547.	1.3	303
41	Carbon nanotubes by the metallocene route. Chemical Physics Letters, 1997, 267, 276-280.	1.2	303
42	Y-junction carbon nanotubes. Applied Physics Letters, 2000, 77, 2530-2532.	1.5	302
43	MnO and NiO nanoparticles: synthesis and magnetic properties. Journal of Materials Chemistry, 2006, 16, 106-111.	6.7	302
44	Oxide nanotubes prepared using carbon nanotubes as templates. Journal of Materials Research, 1997, 12, 604-606.	1.2	292
45	Uptake of H₂ and CO₂ by Graphene. Journal of Physical Chemistry C, 2008, 112, 15704-15707.	1.5	288
46	Transition Metal Oxides. Annual Review of Physical Chemistry, 1989, 40, 291-326.	4.8	287
47	Bâ€"Câ€"N, Câ€"N and Bâ€"N nanotubes produced by the pyrolysis of precursor molecules over Co catalysts. Chemical Physics Letters, 1998, 287, 671-676.	1.2	280
48	Large aligned-nanotube bundles from ferrocene pyrolysis. Chemical Communications, 1998, , 1525-1526.	2.2	279
49	Synthesis of inorganic nanomaterials. Dalton Transactions, 2007, , 3728.	1.6	273
50	Crystal chemistry and magnetic properties of layered metal oxides possessing the K2NiF4 or related structures. Journal of Solid State Chemistry, 1984, 53, 193-216.	1.4	269
51	Hybrid nanocomposites of ZIF-8 with graphene oxide exhibiting tunable morphology, significant CO2 uptake and other novel properties. Chemical Communications, 2013, 49, 4947.	2.2	269
52	Thiol-Derivatized Nanocrystalline Arrays of Gold, Silver, and Platinum. Journal of Physical Chemistry B, 1997, 101, 9876-9880.	1.2	265
53	Metal Nanowires and Intercalated Metal Layers in Single-Walled Carbon Nanotube Bundles. Chemistry of Materials, 2000, 12, 202-205.	3.2	261
54	Transformations of Molecules and Secondary Building Units to Materials:Â A Bottom-Up Approach. Accounts of Chemical Research, 2004, 37, 763-774.	7.6	259

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55	Extraordinary synergy in the mechanical properties of polymer matrix composites reinforced with 2 nanocarbons. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13186-13189.	3.3	259
56	Novel Magnetic Properties of Graphene: Presence of Both Ferromagnetic and Antiferromagnetic Features and Other Aspects. Journal of Physical Chemistry C, 2009, 113, 9982-9985.	1.5	252
57	Influence of Cation Size on the Structural Features of Ln1/2A1/2MnO3Perovskites at Room Temperature. Chemistry of Materials, 1998, 10, 3652-3665.	3.2	248
58	Hydrogen generation by water splitting using MoS2 and other transition metal dichalcogenides. Nano Energy, 2017, 41, 49-65.	8.2	248
59	Field-induced polar order at the NÃ©el temperature of chromium in rare-earth orthochromites: Interplay of rare-earth and Cr magnetism. Physical Review B, 2012, 86, .	1.1	247
60	New Metal Disulfide Nanotubes. Journal of the American Chemical Society, 2001, 123, 4841-4842.	6.6	238
61	Hydrogen and ethanol sensors based on ZnO nanorods, nanowires and nanotubes. Chemical Physics Letters, 2006, 418, 586-590.	1.2	238
62	Synthesis of single-walled carbon nanotubes using binary (Fe, Co, Ni) alloy nanoparticles prepared in situ by the reduction of oxide solid solutions. Chemical Physics Letters, 1999, 300, 236-242.	1.2	236
63	Surfactant-assisted synthesis of semiconductor nanotubes and nanowires. Applied Physics Letters, 2001, 78, 1853-1855.	1.5	233
64	Noncovalent Functionalization, Exfoliation, and Solubilization of Graphene in Water by Employing a Fluorescent Coronene Carboxylate. Chemistry - A European Journal, 2010, 16, 2700-2704.	1.7	231
65	The Liquidâ€“Liquid Interface as a Medium To Generate Nanocrystalline Films of Inorganic Materials. Accounts of Chemical Research, 2008, 41, 489-499.	7.6	230
66	Chemical storage of hydrogen in few-layer graphene. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2674-2677.	3.3	229
67	Charge ordering in the rare earth manganates: the experimental situation. Journal of Physics Condensed Matter, 2000, 12, R83-R106.	0.7	227
68	Highly efficient photocatalytic hydrogen generation by solution-processed ZnO/Pt/CdS, ZnO/Pt/Cd1â^'xZnxS and ZnO/Pt/CdS1â^'xSex hybrid nanostructures. Energy and Environmental Science, 2013, 6, 3589.	15.6	225
69	Electrical transport, magnetism, and magnetoresistance in ferromagnetic oxides with mixed exchange interactions: A study of theLa0.7Ca0.3Mn1â^'xCoxO3system. Physical Review B, 1997, 56, 1345-1353.	1.1	222
70	Characterization of few-layer 1T-MoSe2 and its superior performance in the visible-light induced hydrogen evolution reaction. APL Materials, 2014, 2, .	2.2	222
71	Nitrogen- and Boron-Doped Double-Walled Carbon Nanotubes. ACS Nano, 2007, 1, 494-500.	7.3	221
72	H2S sensors based on tungsten oxide nanostructures. Sensors and Actuators B: Chemical, 2008, 128, 488-493.	4.0	218

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73	Giant Magnetoresistance in Bulk Samples of La1-xAxMnO3 (A = Sr or Ca). Journal of Solid State Chemistry, 1995, 114, 297-299.	1.4	217
74	Electrical transport in rare earth ortho-chromites, -manganites and -ferrites. Journal of Physics and Chemistry of Solids, 1971, 32, 345-358.	1.9	216
75	Nanoparticles of Ag, Au, Pd, and Cu produced by alcohol reduction of the salts. Journal of Materials Research, 1997, 12, 398-401.	1.2	212
76	Orbital ordering as the determinant for ferromagnetism in biferroicBiMnO3. Physical Review B, 2002, 66, .	1.1	211
77	BiferroicYCrO3. Physical Review B, 2005, 72, .	1.1	209
78	Exploration of a Simple Universal Route to the Myriad of Open-Framework Metal Phosphates. Journal of the American Chemical Society, 2000, 122, 2810-2817.	6.6	208
79	The decoration of carbon nanotubes by metal nanoparticles. Journal Physics D: Applied Physics, 1996, 29, 3173-3176.	1.3	207
80	Single-walled nanotubes by the pyrolysis of acetylene-organometallic mixtures. Chemical Physics Letters, 1998, 293, 47-52.	1.2	205
81	Superior performance of borocarbonitrides, B_xC_yN_z, as stable, low-cost metal-free electrocatalysts for the hydrogen evolution reaction. Energy and Environmental Science, 2016, 9, 95-101.	15.6	205
82	Spectroscopic Studies of the Hydrogen Bond. Applied Spectroscopy Reviews, 1968, 2, 69-191.	3.4	201
83	Recent Progress in the Photocatalytic Reduction of Carbon Dioxide. ACS Omega, 2017, 2, 2740-2748.	1.6	199
84	Rare earth chromites: a new family of multiferroics. Journal of Materials Chemistry, 2007, 17, 42-44.	6.7	198
85	CONTRIBUTION TO THE INFRARED SPECTRA OF ORGANOSULPHUR COMPOUNDS. Canadian Journal of Chemistry, 1964, 42, 36-42.	0.6	195
86	Novel experiments with carbon nanotubes: opening, filling, closing and functionalizing nanotubes. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 4925-4934.	0.6	194
87	BCN: A Graphene Analogue with Remarkable Adsorptive Properties. Chemistry - A European Journal, 2010, 16, 149-157.	1.7	194
88	Controlled synthesis of crystalline tellurium nanorods, nanowires, nanobelts and related structures by a self-seeding solution process. Journal of Materials Chemistry, 2004, 14, 2530.	6.7	192
89	Nitrogen-containing carbon nanotubes. Journal of Materials Chemistry, 1997, 7, 2335-2337.	6.7	190
90	Hybrid inorganicâ€"organic materials: a new family in condensed matter physics. Journal of Physics Condensed Matter, 2008, 20, 083202.	0.7	188

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91	Nanowires, nanobelts and related nanostructures of Ga2O3. Chemical Physics Letters, 2002, 351, 189-194.	1.2	184
92	Nanostructured advanced materials. Perspectives and directions. Pure and Applied Chemistry, 2002, 74, 1491-1506.	0.9	183
93	Organically-templated metal sulfates, selenites and selenates. Chemical Society Reviews, 2006, 35, 375.	18.7	182
94	Femtosecond carrier dynamics and saturable absorption in graphene suspensions. Applied Physics Letters, 2009, 95, .	1.5	182
95	Recent progress in the synthesis of inorganic nanoparticles. Dalton Transactions, 2012, 41, 5089.	1.6	178
96	Inorganic Analogues of Graphene. European Journal of Inorganic Chemistry, 2010, 2010, 4244-4250.	1.0	175
97	Itinerant-electron ferromagnetism inLa1â^ˆ’xSrxCoO3: A MÃ¶ssbauer study. Physical Review B, 1975, 12, 2832-2843.	1.1	173
98	Raman spectra of niobium oxides. Spectrochimica Acta Part A: Molecular Spectroscopy, 1976, 32, 1067-1076.	0.1	171
99	Mechanism of crystal structure transformations. Part 3.â€"Factors affecting the anatase-rutile transformation. Transactions of the Faraday Society, 1962, 58, 1579-1589.	0.9	169
100	Weyl Semimetals as Hydrogen Evolution Catalysts. Advanced Materials, 2017, 29, 1606202.	11.1	169
101	Borocarbonitrides, BxCyNz, 2D Nanocomposites with Novel Properties. Bulletin of the Chemical Society of Japan, 2019, 92, 441-468.	2.0	168
102	Optical limiting in single-walled carbon nanotube suspensions. Chemical Physics Letters, 2000, 317, 510-514.	1.2	167
103	Bundles of aligned carbon nanotubes obtained by the pyrolysis of ferroceneâ€"hydrocarbon mixtures: role of the metal nanoparticles produced in situ. Chemical Physics Letters, 1999, 307, 158-162.	1.2	166
104	A study of the synthetic methods and properties of graphenes. Science and Technology of Advanced Materials, 2010, 11, 054502.	2.8	164
105	Carbon Nanotubes from Organometallic Precursors. Accounts of Chemical Research, 2002, 35, 998-1007.	7.6	163
106	Hydrogen storage in carbon nanotubes and related materials. Journal of Materials Chemistry, 2003, 13, 209-213.	6.7	161
107	Multiferroic and Magnetoelectric Oxides: The Emerging Scenario. Journal of Physical Chemistry Letters, 2012, 3, 2237-2246.	2.1	161
108	Importance of trivalency and the e _g ¹ configuration in the photocatalytic oxidation of water by Mn and Co oxides. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11704-11707.	3.3	161

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109	Multiferroic properties of nanocrystalline BaTiO3. Solid State Communications, 2009, 149, 1-5.	0.9	160
110	A novel method of preparing thiol-derivatised nanoparticles of gold, platinum and silver forming superstructures. Chemical Communications, 1997, , 537-538.	2.2	159
111	Synthesis and Magnetic Properties of CoO Nanoparticles. Chemistry of Materials, 2005, 17, 2348-2352.	3.2	159
112	New routes to multiferroics. Journal of Materials Chemistry, 2007, 17, 4931.	6.7	158
113	Nanotubes of Group 4 Metal Disulfides. Angewandte Chemie - International Edition, 2002, 41, 3451-3454.	7.2	155
114	Room-temperature ferromagnetism in undopedGaNandCdSsemiconductor nanoparticles. Physical Review B, 2008, 77, .	1.1	154
115	NO₂and humidity sensing characteristics of few-layer graphenes. Journal of Experimental Nanoscience, 2009, 4, 313-322.	1.3	154
116	Zirconia nanotubes. Chemical Communications, 1997, , 1581-1582.	2.2	153
117	Boron nitride nanotubes and nanowires. Chemical Physics Letters, 2002, 353, 345-352.	1.2	153
118	Solvothermal Synthesis, Cathodoluminescence, and Fieldâ€Emission Properties of Pure and Nâ€Doped ZnO Nanobullets. Advanced Functional Materials, 2009, 19, 131-140.	7.8	153
119	Interaction of nitrogen with fullerenes: nitrogen derivatives of C60 and C70. The Journal of Physical Chemistry, 1991, 95, 10564-10565.	2.9	150
120	Effects of charge transfer interaction of graphene with electron donor and acceptor molecules examined using Raman spectroscopy and cognate techniques. Journal of Physics Condensed Matter, 2008, 20, 472204.	0.7	150
121	A study of micropores in single-walled carbon nanotubes by the adsorption of gases and vapors. Chemical Physics Letters, 1999, 304, 207-210.	1.2	148
122	A magic-angle spinning 31P NMR investigation of crystalline and glassy inorganic phosphates. Chemical Physics Letters, 1987, 139, 96-102.	1.2	146
123	Infrared spectra and thermal decompositions of metal acetates and dicarboxylates. Canadian Journal of Chemistry, 1968, 46, 257-265.	0.6	145
124	Noncovalent Synthesis of Layered and Channel Structures involving Sulfur-Mediated Hydrogen Bonds. Journal of the American Chemical Society, 1997, 119, 10867-10868.	6.6	144
125	Production of bundles of aligned carbon and carbonâ€"nitrogen nanotubes by the pyrolysis of precursors on silica-supported iron and cobalt catalysts. Chemical Physics Letters, 2000, 322, 333-340.	1.2	144
126	Photophysical properties of the fullerenes, C60 and C70. Chemical Physics Letters, 1992, 195, 1-6.	1.2	143

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127	Borocarbonitrides, BxCyNz. Journal of Materials Chemistry A, 2013, 1, 5806.	5.2	143
128	Charge-Ordering in Manganates. Chemistry of Materials, 1998, 10, 2714-2722.	3.2	142
129	Infrared Spectra and Configuration of Alkylthiourea Derivatives. Normal Vibrations of N,Nâ€²-Dimethyl- and Tetramethylthiourea. Journal of the American Chemical Society, 1967, 89, 235-239.	6.6	141
130	Extraordinary attributes of 2-dimensional MoS2 nanosheets. Chemical Physics Letters, 2014, 609, 172-183.	1.2	141
131	Electronic Raman scattering fromLa0.7Sr0.3MnO3exhibiting giant magnetoresistance. Physical Review B, 1996, 54, 14899-14902.	1.1	140
132	Unusual magnetic properties of graphene and related materials. Chemical Science, 2012, 3, 45-52.	3.7	140
133	Remarkably low turn-on field emission in undoped, nitrogen-doped, and boron-doped graphene. Applied Physics Letters, 2010, 97, .	1.5	139
134	Extraordinary supercapacitor performance of heavily nitrogenated graphene oxide obtained by microwave synthesis. Journal of Materials Chemistry A, 2013, 1, 7563.	5.2	138
135	Effect of Compositional Fluctuations on the Phase Transitions in (Nd1/2Sr1/2)MnO3. Chemistry of Materials, 1999, 11, 3528-3538.	3.2	137
136	Solvothermal synthesis of CdO and CuO nanocrystals. Chemical Physics Letters, 2004, 393, 493-497.	1.2	137
137	Chiral Porous Metalâ€"Organic Frameworks of Co(II) and Ni(II): Synthesis, Structure, Magnetic Properties, and CO₂ Uptake. Crystal Growth and Design, 2012, 12, 975-981.	1.4	137
138	Synthesis and characterization of silicon carbide, silicon oxynitride and silicon nitride nanowires. Journal of Materials Chemistry, 2002, 12, 1606-1611.	6.7	136
139	Sensors for the nitrogen oxides, NO2, NO and N2O, based on In2O3 and WO3 nanowires. Applied Physics A: Materials Science and Processing, 2006, 85, 241-246.	1.1	136
140	Doping in Carbon Nanotubes Probed by Raman and Transport Measurements. Physical Review Letters, 2007, 99, 136803.	2.9	135
141	Use of Ionic Liquids in the Synthesis of Nanocrystals and Nanorods of Semiconducting Metal Chalcogenides. Chemistry - A European Journal, 2007, 13, 6123-6129.	1.7	135
142	Quenching of fluorescence of aromatic molecules by graphene due to electron transfer. Chemical Physics Letters, 2011, 506, 260-264.	1.2	135
143	Absorption of electromagnetic radiation by superconducting YBa2Cu3O7: an oxygen-induced phenomenon. Journal of Physics C: Solid State Physics, 1987, 20, L559-L563.	1.5	134
144	Infrared Spectra of Organic Azides. Analytical Chemistry, 1957, 29, 916-918.	3.2	132

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145	Superlattices of Metal and Metalâˆ'Semiconductor Quantum Dots Obtained by Layer-by-Layer Deposition of Nanoparticle Arrays. Journal of Physical Chemistry B, 1999, 103, 399-401.	1.2	132
146	Field emission properties of boron and nitrogen doped carbon nanotubes. Chemical Physics Letters, 2006, 428, 102-108.	1.2	132
147	Photoemission study of YBa2Cu3O7through the superconducting transition: Evidence for oxygen dimerization. Physical Review B, 1987, 36, 2371-2373.	1.1	129
148	Fullerenes, nanotubes, onions and related carbon structures. Materials Science and Engineering Reports, 1995, 15, 209-262.	14.8	129
149	Charge, Spin, and Orbital Ordering in the Perovskite Manganates, Ln1-xAxMnO3(Ln = Rare Earth, A = Ca) Tj ETQq1 1 0.784314 rgBT /Ov	1.2	129
150	Extraordinary Sensitivity of the Electronic Structure and Properties of Single-Walled Carbon Nanotubes to Molecular Charge-Transfer. Journal of Physical Chemistry C, 2008, 112, 13053-13056.	1.5	128
151	Electric-field-induced melting of the randomly pinned charge-ordered states of rare-earth manganates and associated effects. Physical Review B, 2000, 61, 594-598.	1.1	126
152	L3/L2 white-line intensity ratios in the electron energy-loss spectra of 3d transition-metal oxides. Chemical Physics Letters, 1984, 108, 547-550.	1.2	125
153	A convenient route for the synthesis of complex metal oxides employing solid-solution precursors. Inorganic Chemistry, 1984, 23, 1206-1210.	1.9	125
154	Mesoporous phases based on SnO2 and TiO2. Chemical Communications, 1996, , 1685.	2.2	125
155	Films of Metal Nanocrystals Formed at Aqueousâˆ'Organic Interfacesâ€. Journal of Physical Chemistry B, 2003, 107, 7391-7395.	1.2	125
156	Direct evidence of phase segregation and magnetic-field-induced structural transition inNd0.5Sr0.5MnO3by neutron diffraction. Physical Review B, 2000, 61, R9229-R9232.	1.1	122
157	Fluidity, permeability and antioxidant behaviour of model membranes incorporated with Î±-tocopherol and vitamin E acetate. Biochimica Et Biophysica Acta - Biomembranes, 1983, 734, 353-362.	1.4	121
158	Giant Magnetoresistance in Transition Metal Oxides. Science, 1996, 272, 369-370.	6.0	121
159	A novel open-framework zinc phosphate with intersecting helical channels. Chemical Communications, 1999, , 165-166.	2.2	118
160	Use of the liquidâ€"liquid interface for generating ultrathin nanocrystalline films of metals, chalcogenides, and oxides. Journal of Colloid and Interface Science, 2005, 289, 305-318.	5.0	118
161	Nanocomposites of C₃N₄with Layers of MoS₂and Nitrogenated RGO, Obtained by Covalent Cross-Linking: Synthesis, Characterization, and HER Activity. ACS Applied Materials & Interfaces, 2017, 9, 10664-10672.	4.0	118
162	Identification of the phase responsible for high-temperature superconductivity in Yâ€"Baâ€"Cu oxides. Nature, 1987, 326, 856-857.	13.7	117

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163	Infrared studies on the conformation of synthetic alamethicin fragments and model peptides containing .alpha.-aminoisobutyric acid. Biochemistry, 1980, 19, 425-431.	1.2	116
164	Formation of One-, Two-, and Three-Dimensional Open-Framework Zinc Phosphates in the Presence of a Tetramine. Inorganic Chemistry, 2000, 39, 4295-4304.	1.9	116
165	Resistivity, giant magnetoresistance and thermopower in La0.7Sr0.3MnO3 showing a large difference in temperatures corresponding to the ferromagnetic transition and the insulator - metal transition. Solid State Communications, 1996, 99, 149-152.	0.9	115
166	Observation of local non-centrosymmetry in weakly biferroic YCrO3. Journal of Physics Condensed Matter, 2007, 19, 102202.	0.7	115
167	Multiferroic and magnetoelectric properties of core-shell CoFe2O4@BaTiO3 nanocomposites. Applied Physics Letters, 2010, 97, .	1.5	115
168	Borocarbonitrides as Metalâ€Free Catalysts for the Hydrogen Evolution Reaction. Advanced Materials, 2019, 31, e1803668.	11.1	115
169	Transformations of low-dimensional zinc phosphates to complex open-framework structures. Part 1: zero-dimensional to one-, two- and three-dimensional structures. Journal of Materials Chemistry, 2001, 11, 1181-1191.	6.7	114
170	Effect of Dimensionality on the Giant Magnetoresistance of the Manganates: A Study of the (La,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	1.4	113
171	A simple single-source precursor route to the nanostructures of AlN, GaN and InN. Journal of Materials Chemistry, 2005, 15, 2175.	6.7	113
172	Solar thermochemical splitting of water to generate hydrogen. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13385-13393.	3.3	111
173	A Building-Up Process in Open-Framework Metal Carboxylates that Involves a Progressive Increase in Dimensionality. Angewandte Chemie - International Edition, 2006, 45, 281-285.	7.2	110
174	A comparative study of the magnetic and electrical properties of perovskite oxides and the corresponding two-dimensional oxides of K2NiF4 structure. Journal of Solid State Chemistry, 1988, 72, 14-23.	1.4	109
175	Synthetic strategies for Y-junction carbon nanotubes. Chemical Physics Letters, 2001, 345, 5-10.	1.2	108
176	Giant magnetoresistance, charge ordering and other novel properties of perovskite manganates. Journal of Physics and Chemistry of Solids, 1998, 59, 487-501.	1.9	107
177	Organically Templated Mixed-Valent Iron Sulfates Possessing KagomÃ© and Other Types of Layered Networks. Angewandte Chemie - International Edition, 2002, 41, 4297-4300.	7.2	107
178	Synthesis and Characterization of Magnetic Iron Sulfide Nanowires. Advanced Materials, 2003, 15, 2098-2101.	11.1	107
179	Depth profile composition studies of thin film CdS:Cu2S solar cells using XPS and AES. Journal Physics D: Applied Physics, 1981, 14, 1647-1656.	1.3	105
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