

Sridhar Komarneni

List of Publications by Year in descending order

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564
papers

25,314
citations

7087

78
h-index

16164

124
g-index

566
all docs

566
docs citations

566
times ranked

23890
citing authors

#	ARTICLE	IF	CITATIONS
1	Fly ash-based geopolymer: clean production, properties and applications. <i>Journal of Cleaner Production</i> , 2016, 125, 253-267.	4.6	629
2	Feature article. Nanocomposites. <i>Journal of Materials Chemistry</i> , 1992, 2, 1219.	6.7	497
3	Microwave-hydrothermal synthesis of ceramic powders. <i>Materials Research Bulletin</i> , 1992, 27, 1393-1405.	2.7	480
4	Electronic Structure Tuning in Ni ₃ FeN/r-GO Aerogel toward Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Nano</i> , 2018, 12, 245-253.	7.3	462
5	Synthesis, properties and applications of ZnO nanomaterials with oxygen vacancies: A review. <i>Ceramics International</i> , 2018, 44, 7357-7377.	2.3	369
6	Oxygen defects-mediated Z-scheme charge separation in g-C ₃ N ₄ /ZnO photocatalysts for enhanced visible-light degradation of 4-chlorophenol and hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 406-416.	10.8	333
7	Microwave~Polyol Process for Pt and Ag Nanoparticles. <i>Langmuir</i> , 2002, 18, 5959-5962.	1.6	321
8	Synthesis of Smectite Clay Minerals: A Critical Review. <i>Clays and Clay Minerals</i> , 1999, 47, 529-554.	0.6	288
9	Direct Synthesis of Titanium-Substituted Mesoporous SBA-15 Molecular Sieve under Microwave~Hydrothermal Conditions. <i>Chemistry of Materials</i> , 2001, 13, 552-557.	3.2	262
10	Biomolecule-Assisted Synthesis of Highly Ordered Snowflakelike Structures of Bismuth Sulfide Nanorods. <i>Journal of the American Chemical Society</i> , 2004, 126, 54-55.	6.6	258
11	Catalytic fast pyrolysis of biomass with mesoporous ZSM-5 zeolites prepared by desilication with NaOH solutions. <i>Applied Catalysis A: General</i> , 2014, 470, 115-122.	2.2	252
12	Ordered SBA-15 Nanorod Arrays Inside a Porous Alumina Membrane. <i>Journal of the American Chemical Society</i> , 2004, 126, 8650-8651.	6.6	246
13	Microwave~Hydrothermal Synthesis of Nanophase Ferrites. <i>Journal of the American Ceramic Society</i> , 1998, 81, 3041-3043.	1.9	244
14	Defect-rich ZnO nanosheets of high surface area as an efficient visible-light photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2016, 192, 8-16.	10.8	231
15	Confined Formation of Ultrathin ZnO Nanorods/Reduced Graphene Oxide Mesoporous Nanocomposites for High-Performance Room-Temperature NO ₂ Sensors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35454-35463.	4.0	210
16	Capture of Radioactive Cesium and Iodide Ions from Water by Using Titanate Nanofibers and Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10594-10598.	7.2	208
17	Electro-peroxone treatment of Orange II dye wastewater. <i>Water Research</i> , 2013, 47, 6234-6243.	5.3	182
18	Highly stable supercapacitors with MOF-derived Co ₉ S ₈ /carbon electrodes for high rate electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12453-12461.	5.2	180

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19	Microwave-hydrothermal processing for synthesis of electroceramic powders. <i>Journal of Materials Research</i> , 1993, 8, 3176-3183.	1.2	179
20	Amine-modified mesocellular silica foams for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2011, 168, 918-924.	6.6	170
21	Improving the aromatic production in catalytic fast pyrolysis of cellulose by co-feeding low-density polyethylene. <i>Applied Catalysis A: General</i> , 2013, 455, 114-121.	2.2	168
22	Microwave-Hydrothermal Crystallization of Polymorphic MnO ₂ for Electrochemical Energy Storage. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10770-10779.	1.5	168
23	Room-temperature gas sensors based on ZnO nanorod/Au hybrids: Visible-light-modulated dual selectivity to NO ₂ and NH ₃ . <i>Journal of Hazardous Materials</i> , 2020, 381, 120919.	6.5	168
24	Synthesis and deposition of ultrafine Pt nanoparticles within high aspect ratio TiO ₂ nanotube arrays: application to the photocatalytic reduction of carbon dioxide. <i>Journal of Materials Chemistry</i> , 2011, 21, 13429.	6.7	152
25	Porous carbons prepared by direct carbonization of MOFs for supercapacitors. <i>Applied Surface Science</i> , 2014, 308, 306-310.	3.1	151
26	Hydrothermal Preparation of Ultrafine Ferrites and Their Sintering. <i>Journal of the American Ceramic Society</i> , 1988, 71, C-26-C-28.	1.9	148
27	Microwave-hydrothermal processing of titanium dioxide. <i>Materials Chemistry and Physics</i> , 1999, 61, 50-54.	2.0	148
28	Microwave-Hydrothermal Synthesis and Characterization of Zirconium Substituted SBA-15 Mesoporous Silica. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8356-8360.	1.2	144
29	Bulk synthesis and selective exchange of strontium ions in Na ₄ Mg ₆ Al ₄ Si ₄ O ₂₀ F ₄ mica. <i>Nature</i> , 1992, 357, 571-573.	13.7	139
30	Nanocomposites of hierarchical ultrathin MnO ₂ nanosheets/hollow carbon nanofibers for high-performance asymmetric supercapacitors. <i>Applied Surface Science</i> , 2019, 463, 931-938.	3.1	137
31	Control over Microporosity of Ordered Microporous~Mesoporous Silica SBA-15 Framework under Microwave-Hydrothermal Conditions:~Effect of Salt Addition. <i>Chemistry of Materials</i> , 2001, 13, 4573-4579.	3.2	133
32	Rational design of self-supported Cu@WC core-shell mesoporous nanowires for pH-universal hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119451.	10.8	133
33	Microwave-Assisted Polyol Process for Synthesis of Ni Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2006, 89, 1510-1517.	1.9	132
34	Reactions of Cu ²⁺ and Pb ²⁺ with Mg/Al layered double hydroxide. <i>Applied Clay Science</i> , 2007, 37, 143-148.	2.6	129
35	Biomolecule-Assisted Reduction in the Synthesis of Single-Crystalline Tellurium Nanowires. <i>Advanced Materials</i> , 2004, 16, 1629-1632.	11.1	128
36	Synthesis of ZnO with and without microwaves. <i>Materials Research Bulletin</i> , 2000, 35, 1843-1847.	2.7	126

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37	Cr(VI) reduction and immobilization by novel carbonaceous modified magnetic Fe ₃ O ₄ /halloysite nanohybrid. <i>Journal of Hazardous Materials</i> , 2016, 309, 151-156.	6.5	126
38	Electrodeposition preparation of NiCo ₂ O ₄ mesoporous film on ultrafine nickel wire for flexible asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 345, 31-38.	6.6	126
39	Visible light photocatalytic activity enhancement of Ag ₃ PO ₄ dispersed on exfoliated bentonite for degradation of rhodamine B. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 26-32.	10.8	124
40	Extremely enhanced CO ₂ uptake by HKUST-1 metal-organic framework via a simple chemical treatment. <i>Microporous and Mesoporous Materials</i> , 2014, 183, 69-73.	2.2	122
41	Interface Reaction for the Self-Assembly of Silver Nanocrystals under Microwave-Assisted Solvothermal Conditions. <i>Chemistry of Materials</i> , 2005, 17, 856-860.	3.2	120
42	Polyethylenimine functionalized halloysite nanotubes for efficient removal and fixation of Cr (VI). <i>Microporous and Mesoporous Materials</i> , 2015, 207, 46-52.	2.2	120
43	Microwave-hydrothermal synthesis and characterization of barium titanate powders. <i>Materials Research Bulletin</i> , 2001, 36, 2347-2355.	2.7	119
44	Microwave-hydrothermal processing of metal powders. <i>Journal of Materials Research</i> , 1995, 10, 1687-1692.	1.2	117
45	Novel function for anionic clays: selective transition metal cation uptake by diadochy. <i>Journal of Materials Chemistry</i> , 1998, 8, 1329-1331.	6.7	117
46	A Green Chemical Approach to the Synthesis of Tellurium Nanowires. <i>Langmuir</i> , 2005, 21, 6002-6005.	1.6	117
47	Phosphate removal from solution by composite of MCM-41 silica with rice husk: Kinetic and equilibrium studies. <i>Microporous and Mesoporous Materials</i> , 2016, 224, 51-57.	2.2	115
48	Nanoscale engineering of nitrogen-doped carbon nanofiber aerogels for enhanced lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8247-8254.	5.2	114
49	Direct Interfacial Growth of MnO ₂ Nanostructure on Hierarchically Porous Carbon for High-Performance Asymmetric Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 633-641.	3.2	113
50	Nanophase materials by a novel microwave-hydrothermal process. <i>Pure and Applied Chemistry</i> , 2002, 74, 1537-1543.	0.9	111
51	Microwave-Hydrothermal Synthesis of Monodispersed Nanophase Fe ₂ O ₃ . <i>Journal of the American Ceramic Society</i> , 2001, 84, 2313-2317.	1.9	111
52	Sol-Gel Fabrication of Epitaxial and Oriented TiO ₂ Thin Films. <i>Journal of the American Ceramic Society</i> , 1992, 75, 1167-1170.	1.9	108
53	Selective Capture of Iodide from Solutions by Microrosette-like Bi ₂ O ₃ . <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16082-16090.	4.0	107
54	Hierarchical ZnO Nanosheet-Nanorod Architectures for Fabrication of Poly(3-hexylthiophene)/ZnO Hybrid NO ₂ Sensor. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8600-8607.	4.0	106

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55	Cr(VI) adsorption by montmorillonite nanocomposites. <i>Applied Clay Science</i> , 2016, 124-125, 111-118.	2.6	106
56	Rapid synthesis of mesoporous SBA-15 molecular sieve by a microwave-hydrothermal process. <i>Chemical Communications</i> , 2000, , 2389-2390.	2.2	104
57	Synthesis and Characterization of Poly(vinylidene fluoride)- <i>g</i> -sulfonated Polystyrene Graft Copolymers for Proton Exchange Membrane. <i>Macromolecules</i> , 2008, 41, 9130-9139.	2.2	104
58	Light-activated room-temperature gas sensors based on metal oxide nanostructures: A review on recent advances. <i>Ceramics International</i> , 2021, 47, 7353-7368.	2.3	103
59	Microwave-hydrothermal processing of layered anion exchangers. <i>Journal of Materials Research</i> , 1996, 11, 1866-1869.	1.2	102
60	Mineral mesopore effects on nitrogenous organic matter adsorption. <i>Organic Geochemistry</i> , 2004, 35, 355-375.	0.9	102
61	Superselective clay for radium uptake. <i>Nature</i> , 2001, 410, 771-771.	13.7	100
62	Carbon with ultrahigh capacitance when graphene paper meets $K_3Fe(CN)_6$. <i>Nanoscale</i> , 2015, 7, 432-439.	2.8	99
63	Highly selective removal of nitrate and perchlorate by organoclay. <i>Applied Clay Science</i> , 2014, 95, 126-132.	2.6	98
64	Uptake of arsenite by synthetic layered double hydroxides. <i>Water Research</i> , 2009, 43, 3884-3890.	5.3	97
65	Novel hydrothermal electrodeposition to fabricate mesoporous film of Ni _{0.8} Fe _{0.2} nanosheets for high performance oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 226-233.	10.8	95
66	Microwave-hydrothermal processing for synthesis of layered and network phosphates. <i>Journal of Materials Chemistry</i> , 1994, 4, 1903-1906.	6.7	94
67	Use of β -zirconium phosphate for Cs removal from radioactive waste. <i>Nature</i> , 1982, 299, 707-708.	13.7	92
68	Selective Cation Exchange in Substituted Tobermorites. <i>Journal of the American Ceramic Society</i> , 1989, 72, 1668-1674.	1.9	91
69	Role of α -Fe ₂ O ₃ Morphology on the Color of Red Pigment for Porcelain. <i>Journal of the American Ceramic Society</i> , 2003, 86, 183-185.	1.9	90
70	Visible-light photocatalytic decolorization of Orange II on Cu ₂ O/ZnO nanocomposites. <i>Ceramics International</i> , 2015, 41, 2050-2056.	2.3	88
71	Synthesis of Glass-like Cordierite from Metal Alkoxides and Characterization by ²⁷ Al and ²⁹ Si MASNMR. <i>Journal of the American Ceramic Society</i> , 1990, 73, 3663-3669.	1.9	85
72	Barium titanate ceramics prepared from conventional and microwave hydrothermal powders. <i>Materials Letters</i> , 1999, 38, 344-350.	1.3	85

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73	ZSM-5 zeolite/porous carbon composite: Conventional- and microwave-hydrothermal synthesis from carbonized rice husk. <i>Microporous and Mesoporous Materials</i> , 2005, 86, 145-151.	2.2	84
74	Microwave-Hydrothermal Processing of BiFeO ₃ and CsAl ₂ PO ₆ . <i>Journal of the American Ceramic Society</i> , 1996, 79, 1409-1412.	1.9	83
75	Microwave-assisted versus conventional synthesis of zeolite A from metakaolinite. <i>Microporous and Mesoporous Materials</i> , 2008, 115, 527-534.	2.2	83
76	Stepwise functionalization of mesoporous crystalline silica materials. <i>Microporous and Mesoporous Materials</i> , 1998, 25, 75-80.	2.2	82
77	Nanocomposite of halloysite nanotubes/multi-walled carbon nanotubes for methyl parathion electrochemical sensor application. <i>Applied Clay Science</i> , 2021, 200, 105907.	2.6	82
78	Advances in recyclable and superior photocatalytic fibers: Material, construction, application and future perspective. <i>Composites Part B: Engineering</i> , 2021, 205, 108512.	5.9	82
79	Synthetic hydrotalcite-type and hydrocalumite-type layered double hydroxides for arsenate uptake. <i>Applied Clay Science</i> , 2010, 48, 631-637.	2.6	81
80	Nucleation of alpha alumina in boehmite gel. <i>Journal of Materials Research</i> , 1990, 5, 278-285.	1.2	80
81	Time-resolved structural analysis of K- and Ba-exchange reactions with synthetic Na-birnessite using synchrotron X-ray diffraction. <i>American Mineralogist</i> , 2007, 92, 380-387.	0.9	80
82	Self-Supportive Mesoporous Ni/Co/Fe Phosphosulfide Nanorods Derived from Novel Hydrothermal Electrodeposition as a Highly Efficient Electrocatalyst for Overall Water Splitting. <i>Small</i> , 2019, 15, e1905201.	5.2	80
83	Selective Exchange and Fixation of Strontium Ions with Ultrafine Na-4-mica. <i>Langmuir</i> , 2001, 17, 4881-4886.	1.6	79
84	An investigation on the use of electrolytic manganese residue as filler in sulfur concrete. <i>Construction and Building Materials</i> , 2014, 73, 305-310.	3.2	79
85	Adsorption of light hydrocarbons on HMS type mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2003, 65, 267-276.	2.2	78
86	Cellulose-Directed Growth of Selenium Nanobelts in Solution. <i>Chemistry of Materials</i> , 2006, 18, 159-163.	3.2	77
87	Effects of conventional ozonation and electro-peroxone pretreatment of surface water on disinfection by-product formation during subsequent chlorination. <i>Water Research</i> , 2018, 130, 322-332.	5.3	77
88	Surface Charge of Variable Porosity Al ₂ O ₃ (s) and SiO ₂ (s) Adsorbents. <i>Journal of Porous Materials</i> , 2002, 9, 243-256.	1.3	76
89	CO ₂ adsorption on Santa Barbara Amorphous-15 (SBA-15) and amine-modified Santa Barbara Amorphous-15 (SBA-15) with and without controlled microporosity. <i>Journal of Colloid and Interface Science</i> , 2013, 390, 217-224.	5.0	74
90	Optimizing the distribution of aromatic products from catalytic fast pyrolysis of cellulose by ZSM-5 modification with boron and co-feeding of low-density polyethylene. <i>Applied Catalysis A: General</i> , 2014, 487, 45-53.	2.2	74

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91	Influence of Tetrahedral Layer Charge on the Organization of Interlayer Water and Ions in Synthetic Na-Saturated Smectites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4158-4172.	1.5	74
92	Sustainable seaweed-based one-dimensional (1D) nanofibers as high-performance electrocatalysts for fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14188-14194.	5.2	72
93	Partly nitrogenized nickel oxide hollow spheres with multiple compositions for remarkable electrochemical performance. <i>Chemical Engineering Journal</i> , 2019, 358, 531-539.	6.6	72
94	Adsorption of methylene blue and Orange II pollutants on activated carbon prepared from banana peel. <i>Journal of Porous Materials</i> , 2015, 22, 301-311.	1.3	71
95	One-step synthesis of nanostructured mesoporous ZIF-8/silica composites. <i>Microporous and Mesoporous Materials</i> , 2016, 219, 311-316.	2.2	71
96	Mg doped CuO@Fe ₂ O ₃ composites activated by persulfate as highly active heterogeneous catalysts for the degradation of organic pollutants. <i>Journal of Alloys and Compounds</i> , 2020, 825, 154036.	2.8	71
97	Cr(VI) uptake by a composite of processed diatomite with MCM-41: Isotherm, kinetic and thermodynamic studies. <i>Microporous and Mesoporous Materials</i> , 2018, 260, 84-92.	2.2	69
98	Fast Synthesis of Cerium Oxide Nanoparticles and Nanorods. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 3812-3819.	0.9	67
99	Investigation of the synergistic effects for p-nitrophenol mineralization by a combined process of ozonation and electrolysis using a boron-doped diamond anode. <i>Journal of Hazardous Materials</i> , 2014, 280, 644-653.	6.5	67
100	A Cs _x WO ₃ /ZnO nanocomposite as a smart coating for photocatalytic environmental cleanup and heat insulation. <i>Nanoscale</i> , 2015, 7, 17048-17054.	2.8	67
101	TiO ₂ /Sepiolite nanocomposites doped with rare earth ions: Preparation, characterization and visible light photocatalytic activity. <i>Microporous and Mesoporous Materials</i> , 2019, 274, 25-32.	2.2	67
102	Na-4-mica: Cd ²⁺ , Ni ²⁺ , Co ²⁺ , Mn ²⁺ and Zn ²⁺ ion exchange. <i>Journal of Materials Chemistry</i> , 1999, 9, 533-539.	6.7	66
103	Thermally stable phosphorus and nickel modified ZSM-5 zeolites for catalytic co-pyrolysis of biomass and plastics. <i>RSC Advances</i> , 2015, 5, 30485-30494.	1.7	66
104	BiOCl dispersed on NiFe-LDH leads to enhanced photo-degradation of Rhodamine B dye. <i>Applied Clay Science</i> , 2015, 109-110, 76-82.	2.6	66
105	Fluoride removal by ordered and disordered mesoporous aluminas. <i>Microporous and Mesoporous Materials</i> , 2014, 197, 156-163.	2.2	65
106	Separate or Simultaneous Removal of Radioactive Cations and Anions from Water by Layered Sodium Vanadate-Based Sorbents. <i>Chemistry of Materials</i> , 2014, 26, 4788-4795.	3.2	65
107	Sol-gel processing of PbTiO ₃ and Pb(Zr _{0.52} Ti _{0.48})O ₃ fibers. <i>Journal of Materials Research</i> , 1992, 7, 992-996.	1.2	64
108	Nanoclay assisted electrochemical exfoliation of pencil core to high conductive graphene thin-film electrode. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 156-161.	5.0	64

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109	Synthesis and Dielectric Properties of Solution Sol-Gel-Derived $0.9\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.1\text{PbTiO}_3$ Ceramics. <i>Journal of the American Ceramic Society</i> , 1991, 74, 2996-2999.	1.9	63
110	Rapid synthesis of AlPO_4 -11 and cloverite by microwave hydrothermal processing. <i>Microporous and Mesoporous Materials</i> , 1998, 20, 39-44.	2.2	63
111	Template free ZSM-5 from siliceous rice hull ash with varying C contents. <i>Microporous and Mesoporous Materials</i> , 2006, 93, 134-140.	2.2	63
112	Microwave- and conventional-hydrothermal synthesis of CuS, SnS and ZnS: Optical properties. <i>Ceramics International</i> , 2013, 39, 4757-4763.	2.3	63
113	Fabrication, performance and mechanism of MgO meso-/macroporous nanostructures for simultaneous removal of As(III) and F in a groundwater system. <i>Environmental Science: Nano</i> , 2016, 3, 1416-1424.	2.2	61
114	Substituted Tobermorites: ^{27}Al and ^{29}Si MASNMR, Cation Exchange, and Water Sorption Studies. <i>Journal of the American Ceramic Society</i> , 1991, 74, 274-279.	1.9	60
115	Nanocomposite of exfoliated bentonite/g-C $_3$ N $_4$ /Ag $_3$ PO $_4$ for enhanced visible-light photocatalytic decomposition of Rhodamine B. <i>Chemosphere</i> , 2016, 162, 269-276.	4.2	60
116	One-pot green hydrothermal synthesis of bio-derived nitrogen-doped carbon sheets embedded with zirconia nanoparticles for electrochemical sensing of methyl parathion. <i>Ceramics International</i> , 2020, 46, 19713-19722.	2.3	60
117	Fabrication of AgBr/Ag $_2$ CrO $_4$ composites for enhanced visible-light photocatalytic activity. <i>Ceramics International</i> , 2015, 41, 12509-12513.	2.3	59
118	Sepiolite-TiO $_2$ nanocomposites for photocatalysis: Synthesis by microwave hydrothermal treatment versus calcination. <i>Applied Clay Science</i> , 2017, 146, 246-253.	2.6	59
119	Preparation of La $_2$ Zr $_2$ O $_7$ by Sol-Gel Route. <i>Journal of the American Ceramic Society</i> , 1991, 74, 422-424.	1.9	58
120	Microwave Versus Conventional-Hydrothermal Synthesis of NaY Zeolite. <i>Journal of Porous Materials</i> , 2001, 8, 5-12.	1.3	58
121	N-doped TiO $_2$ /sepiolite nanocomposites with enhanced visible-light catalysis: Role of N precursors. <i>Applied Clay Science</i> , 2018, 166, 9-17.	2.6	58
122	Enhancing adsorption capacity of Egyptian diatomaceous earth by thermo-chemical purification: Methylene blue uptake. <i>Journal of Colloid and Interface Science</i> , 2019, 534, 408-419.	5.0	58
123	Solid-State Epitaxial Effects in Structurally Diphasic Xerogel of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$. <i>Journal of the American Ceramic Society</i> , 1990, 73, 1024-1025.	1.9	57
124	Manganese doped magnetic cobalt ferrite nanoparticles for dye degradation via a novel heterogeneous chemical catalysis. <i>Materials Chemistry and Physics</i> , 2020, 240, 122181.	2.0	56
125	Titania gel spheres by a new sol-gel process. <i>Materials Letters</i> , 1985, 3, 165-167.	1.3	55
126	Preparation and densification of forsterite (Mg_2SiO_4) by nanocomposite sol-gel processing. <i>Materials Letters</i> , 1990, 9, 405-409.	1.3	55

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127	Self-generated N-doped anodized stainless steel mesh for an efficient and stable overall water splitting electrocatalyst. <i>Applied Surface Science</i> , 2019, 480, 655-664.	3.1	55
128	Cation exchange properties of a layered manganic acid. <i>Materials Research Bulletin</i> , 1992, 27, 741-751.	2.7	54
129	Microwave-versus Conventional-Hydrothermal Synthesis of Hydroxyapatite Crystals from Gypsum. <i>Journal of the American Ceramic Society</i> , 1999, 82, 2257-2259.	1.9	54
130	Microwave-hydrothermal process for the synthesis of rutile. <i>Materials Research Bulletin</i> , 2005, 40, 2014-2020.	2.7	54
131	Morphological and Kinetic Studies on Hexagonal Tungstates. <i>Chemistry of Materials</i> , 2007, 19, 185-197.	3.2	54
132	Nanoparticles of magnetite anchored onto few-layer graphene: A highly efficient Fenton-like nanocomposite catalyst. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 161-170.	5.0	54
133	Evaluation of Zn-Al-SO ₄ layered double hydroxide for the removal of arsenite and arsenate from a simulated soil solution: Isotherms and kinetics. <i>Applied Clay Science</i> , 2014, 95, 119-125.	2.6	53
134	Mechanism of Microwave Heating of Zeolite A. <i>Journal of Porous Materials</i> , 2001, 8, 23-35.	1.3	52
135	Protein-assisted synthesis of single-crystal nanowires of bismuth compounds. <i>Chemical Communications</i> , 2005, , 531.	2.2	52
136	Incomplete phase separation strategy to synthesize P/N co-doped porous carbon with interconnected structure for asymmetric supercapacitors with ultra-high power density. <i>Electrochimica Acta</i> , 2019, 298, 717-725.	2.6	52
137	Novel synthesis of layered double hydroxides (LDHs) from zinc hydroxide. <i>Applied Surface Science</i> , 2017, 396, 799-803.	3.1	51
138	Specific Cadmium Sorption in Relation to the Crystal Chemistry of Clay Minerals. <i>Soil Science Society of America Journal</i> , 1988, 52, 49-53.	1.2	50
139	Sol-gel processing of cordierite: Effect of seeding and optimization of heat treatment. <i>Journal of Materials Research</i> , 1990, 5, 1095-1103.	1.2	50
140	Pore structures of fly ashes activated by Ca(OH) ₂ and CaSO ₄ · 2H ₂ O. <i>Cement and Concrete Research</i> , 1995, 25, 417-425.	4.6	50
141	Microwave versus conventional preparation of organoclays from natural and synthetic clays. <i>Applied Clay Science</i> , 2006, 31, 134-141.	2.6	50
142	Conventional- vs microwave-hydrothermal synthesis of tin oxide, SnO ₂ nanoparticles. <i>Ceramics International</i> , 2009, 35, 3375-3379.	2.3	50
143	In situ stabilization of As and Sb with naturally occurring Mn, Al and Fe oxides in a calcareous soil: Bioaccessibility, bioavailability and speciation studies. <i>Journal of Hazardous Materials</i> , 2014, 273, 247-252.	6.5	50
144	Facile synthesis of mesoporous MOF/silica composites. <i>RSC Advances</i> , 2014, 4, 57501-57504.	1.7	50

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145	Nanocomposite aerogels: The $\text{SiO}_2\text{-Al}_2\text{O}_3$ system. <i>Journal of Materials Research</i> , 1993, 8, 3163-3167.	1.2	49
146	Highly sensitive detection of gallic acid based on 3D interconnected porous carbon nanotubes/carbon nanosheets modified glassy carbon electrode. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9422-9433.	2.6	49
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