Kenneth J Balkus

List of Publications by Year
in descending order

180	11,830	38660 50	28224 105
papers	citations	h-index	g-index

180	180	180	13970
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrothermal Synthesis of Graphene-TiO₂ Nanotube Composites with Enhanced Photocatalytic Activity. ACS Catalysis, 2012, 2, 949-956.	5.5	863
2	Molecular sieving realized with ZIF-8/MatrimidÂ® mixed-matrix membranes. Journal of Membrane Science, 2010, 361, 28-37.	4.1	776
3	Enzyme immobilization in MCM-41 molecular sieve. Journal of Molecular Catalysis B: Enzymatic, 1996, 2, 115-126.	1.8	566
4	Mixed-matrix membranes containing MOF-5 for gas separations. Journal of Membrane Science, 2009, 328, 165-173.	4.1	524
5	Perspective of Recent Progress in Immobilization of Enzymes. ACS Catalysis, 2011, 1, 956-968.	5.5	428
6	Gas permeability properties of MatrimidÂ® membranes containing the metal-organic framework Cuâ€“BPYâ€“HFS. Journal of Membrane Science, 2008, 313, 170-181.	4.1	337
7	Vanadium Oxide Nanowireâ€“Carbon Nanotube Binderâ€Free Flexible Electrodes for Supercapacitors. Advanced Energy Materials, 2011, 1, 936-945.	10.2	303
8	Synthesis, Characterization, and Photocatalytic Activity of Y-Doped CeO₂ Nanorods. ACS Catalysis, 2014, 4, 577-584.	5.5	301
9	Fabrication of Silver Vanadium Oxide and V₂O₅ Nanowires for Electrochromics. ACS Nano, 2008, 2, 293-301.	7.3	293
10	Tuning the Gate Opening Pressure of Metalâ€“Organic Frameworks (MOFs) for the Selective Separation of Hydrocarbons. Journal of the American Chemical Society, 2012, 134, 15201-15204.	6.6	278
11	Electrospun MEH-PPV/SBA-15 Composite Nanofibers Using a Dual Syringe Method. Journal of the American Chemical Society, 2003, 125, 14531-14538.	6.6	259
12	Cytochrome c immobilization into mesoporous molecular sieves. Journal of Molecular Catalysis B: Enzymatic, 2000, 10, 453-469.	1.8	228
13	Electrospun mesoporous titanium dioxide fibers. Microporous and Mesoporous Materials, 2004, 69, 77-83.	2.2	205
14	Oxidation of alkanes catalyzed by zeolite-encapsulated perfluorinated ruthenium phthalocyanines.. Journal of the American Chemical Society, 1995, 117, 10753-10754.	6.6	200
15	Synthesis and Characterization of Cobaltâ”Complex Functionalized MCM-41. Chemistry of Materials, 1997, 9, 61-67.	3.2	197
16	Fabrication of PbS Quantum Dot Doped TiO₂ Nanotubes. ACS Nano, 2008, 2, 1682-1688.	7.3	196
17	Gas Permeability Properties of Polysulfone Membranes Containing the Mesoporous Molecular Sieve MCM-41. Chemistry of Materials, 2001, 13, 2366-2373.	3.2	187
18	Surface Cross-Linking of ZIF-8/Polyimide Mixed Matrix Membranes (MMMs) for Gas Separation. Industrial & Engineering Chemistry Research, 2013, 52, 6991-7001.	1.8	178

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19	Mixed-matrix membranes composed of MatrimidÂ® and mesoporous ZSM-5 nanoparticles. Journal of Membrane Science, 2008, 325, 28-39.	4.1	171
20	Characterization of the Extra-Large-Pore Zeolite UTD-1. Journal of the American Chemical Society, 1997, 119, 8474-8484.	6.6	168
21	Zeolite encapsulated cobalt(II) and copper(II) perfluorophthalocyanines. Synthesis and characterization. Inorganic Chemistry, 1994, 33, 67-72.	1.9	144
22	Vanadium oxide nanowire â€“ Graphene binder free nanocomposite paper electrodes for supercapacitors: A facile green approach. Journal of Power Sources, 2013, 230, 130-137.	4.0	142
23	Oxidations catalyzed by zeolite ship-in-a-bottle complexes. Applied Catalysis A: General, 1996, 143, 159-173.	2.2	136
24	Alkaline deoxygenated graphene oxide for supercapacitor applications: An effective green alternative for chemically reduced graphene. Journal of Power Sources, 2012, 215, 1-10.	4.0	128
25	Photocatalytic Activity of PbS Quantum Dot/TiO₂ Nanotube Composites. Journal of Physical Chemistry C, 2009, 113, 10755-10760.	1.5	125
26	Manganese oxide nanorodâ€“graphene/vanadium oxide nanowireâ€“graphene binder-free paper electrodes for metal oxide hybrid supercapacitors. Nano Energy, 2013, 2, 966-975.	8.2	125
27	Exfoliated graphite nanoplateletsâ€“V2O5 nanotube composite electrodes for supercapacitors. Journal of Power Sources, 2012, 203, 227-232.	4.0	112
28	Low-Temperature Synthesis of Copper(II) Sulfide Quantum Dot Decorated TiO₂Nanotubes and Their Photocatalytic Properties. Journal of Physical Chemistry C, 2011, 115, 6175-6180.	1.5	109
29	Hybrid materials for immobilization of MP-11 catalyst. Topics in Catalysis, 2006, 38, 269-278.	1.3	108
30	MIL-53 frameworks in mixed-matrix membranes. Microporous and Mesoporous Materials, 2014, 196, 165-174.	2.2	106
31	Electrospun nitric oxide releasing bandage with enhanced wound healing. Acta Biomaterialia, 2015, 13, 121-130.	4.1	84
32	S-Nitrosocysteine-Decorated PbS QDs/TiO₂ Nanotubes for Enhanced Production of Singlet Oxygen. Journal of the American Chemical Society, 2011, 133, 3492-3497.	6.6	83
33	Metal-organic polyhedra 18 mixed-matrix membranes for gas separation. Journal of Membrane Science, 2014, 463, 82-93.	4.1	79
34	Pulsed laser deposition of mesoporous niobium oxide thin films and application as chemical sensors. Microporous and Mesoporous Materials, 1999, 28, 113-123.	2.2	78
35	Photoluminescent properties of MCM-41 molecular sieves. Microporous and Mesoporous Materials, 1998, 20, 67-76.	2.2	77
36	Electrospun linear polyethyleneimine scaffolds for cell growth. Acta Biomaterialia, 2007, 3, 1050-1059.	4.1	77

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37	Vanadium Oxide Nanotube Spherical Clusters Prepared on Carbon Fabrics for Energy Storage Applications. ACS Applied Materials & Interfaces, 2011, 3, 4512-4517.	4.0	76
38	Electrospun mesoporous molecular sieve fibers. Microporous and Mesoporous Materials, 2003, 63, 75-84.	2.2	73
39	Electrospun mesoporous metal oxide fibers. Microporous and Mesoporous Materials, 2005, 86, 1-13.	2.2	71
40	Selective Extraction of Thorium from Rare Earth Elements Using Wrinkled Mesoporous Carbon. Journal of the American Chemical Society, 2018, 140, 14735-14739.	6.6	70
41	Electrochemistry of zeolite-encapsulated cobalt salen complexes in acetonitrile and dimethyl sulphoxide solutions. Journal of the Chemical Society, Faraday Transactions, 1991, 87, 3831.	1.7	68
42	Nitric oxide- and cisplatin-releasing silica nanoparticles for use against non-small cell lung cancer. Journal of Inorganic Biochemistry, 2015, 153, 23-31.	1.5	66
43	The preparation and characterization of Rh(III) SALEN complexes encapsulated in zeolites X and Y. Zeolites, 1990, 10, 722-729.	0.9	61
44	Stabilization of immiscible polymer blends using structure directing metal organic frameworks (MOFs). Polymer, 2014, 55, 2028-2034.	1.8	61
45	Preparation of Oriented Zeolite UTD-1 Membranes via Pulsed Laser Ablation. Journal of the American Chemical Society, 1999, 121, 139-146.	6.6	59
46	Gadolinium zeolite as an oral contrast agent for magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 1995, 5, 499-508.	1.9	58
47	Novel wrinkled periodic mesoporous organosilica nanoparticles for hydrophobic anticancer drug delivery. Journal of Porous Materials, 2015, 22, 1-10.	1.3	57
48	Enzyme Immobilization via Electrospinning. Topics in Catalysis, 2012, 55, 1057-1069.	1.3	55
49	Preparation of Zeolite UTD-1 Films by Pulsed Laser Ablation:Â Evidence for Oriented Crystal Growth. Chemistry of Materials, 1998, 10, 464-466.	3.2	53
50	Carbonate-Based Zeolitic Imidazolate Framework for Highly Selective CO₂ Capture. Inorganic Chemistry, 2015, 54, 1816-1821.	1.9	52
51	Chemoradiotherapeutic Magnetic Nanoparticles for Targeted Treatment of Nonsmall Cell Lung Cancer. Molecular Pharmaceutics, 2015, 12, 3588-3596.	2.3	52
52	Conventional and microwave hydrothermal synthesis of zeolite ZSM-5 from the cupola slag. Microporous and Mesoporous Materials, 2008, 111, 260-266.	2.2	51
53	Binder free carbon nanofiber electrodes derived from polyacrylonitrile-lignin blends for high performance supercapacitors. Nanotechnology, 2019, 30, 355402.	1.3	51
54	Gas Permeability Properties of Mixed-Matrix Matrimid Membranes Containing a Carbon Aerogel:â€‰ A Material with Both Micropores and Mesopores. Industrial & Engineering Chemistry Research, 2008, 47, 2794-2802.	1.8	50

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55	Sensitive and selective real-time electrochemical monitoring of DNA repair. Biosensors and Bioelectronics, 2014, 54, 541-546.	5.3	50
56	Oriented films of mesoporous MCM-41 macroporous tubules via pulsed laser deposition. Microporous and Mesoporous Materials, 2000, 38, 97-105.	2.2	49
57	Fabrication of TiO2 Nanofibers from a Mesoporous Silica Film. Chemistry of Materials, 2005, 17, 5136-5140.	3.2	48
58	Mesoporous Molecular Sieve Derived TiO2Nanofibers Doped with SnO2. Journal of Physical Chemistry C, 2007, 111, 10359-10367.	1.5	46
59	Novel Nanofiltration Hollow Fiber Membrane Produced via Electrospinning. Industrial & Engineering Chemistry Research, 2013, 52, 3473-3480.	1.8	46
60	Comment on â€œZeolite-Modified Electrodes:Â Intra- versus Extrazeolite Electron Transfer. The Journal of Physical Chemistry, 1996, 100, 8607-8609.	2.9	45
61	Cobalt(II)-facilitated transport of dioxygen in a polystyrene membrane. Inorganic Chemistry, 1986, 25, 716-718.	1.9	44
62	Origins and Evolution of Inorganic-Based and MOF-Based Mixed-Matrix Membranes for Gas Separations. Processes, 2016, 4, 32.	1.3	42
63	Organometallic reactions of rhodium octaethylporphyrin species in pyridine. Heterolytic cleavage of [(OEP)Rh]2 and metalloanion activation of carbon monoxide. Organometallics, 1989, 8, 950-955.	1.1	41
64	Preparation of FeAPO-5 Molecular Sieve Thin Films and Application as a Capacitive Type Humidity Sensor. Chemistry of Materials, 1998, 10, 4114-4122.	3.2	41
65	Acrylonitrile-Based Nitric Oxide Releasing Melt-Spun Fibers for Enhanced Wound Healing. Macromolecules, 2012, 45, 5894-5900.	2.2	40
66	A Capacitance Type Chemical Sensor Based on AlPO4-5 Molecular Sieves. Chemistry of Materials, 1997, 9, 380-386.	3.2	38
67	Preparation and characterization of zeolite X membranes via pulsed-laser deposition. Microporous and Mesoporous Materials, 2002, 52, 79-91.	2.2	38
68	Storage and delivery of nitric oxide via diazeniumdiolated metal organic framework. Microporous and Mesoporous Materials, 2013, 181, 17-22.	2.2	38
69	Recrystallization of layered silicates to silicalite-1. Microporous and Mesoporous Materials, 2004, 69, 85-96.	2.2	37
70	Proton conductivity of acid-doped meta-polyaniline. Journal of Membrane Science, 2008, 313, 86-90.	4.1	37
71	A Delivery System for Selfâ€Healing Inorganic Films. Advanced Functional Materials, 2008, 18, 3620-3629.	7.8	37
72	Radiotherapeutic Bandage Based on Electrospun Polyacrylonitrile Containing Holmium-166 Iron Garnet Nanoparticles for the Treatment of Skin Cancer. ACS Applied Materials & Interfaces, 2014, 6, 22250-22256.	4.0	37

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73	Fluoro-Bridged Clusters in Rare-Earth Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 17995-18000.	6.6	37
74	Cyclohexane oxidation catalyzed by zeolite encapsulatedruthenium perfluorophthalocyanines. Studies in Surface Science and Catalysis, 1995, 94, 713-719.	1.5	36
75	Electrospinning of beta silicon carbide nanofibers. Materials Letters, 2009, 63, 2361-2364.	1.3	36
76	Fabrication and characterization of aging resistant carbon molecular sieve membranes for C3 separation using high molecular weight crosslinkable polyimide, 6FDA-DABA. Journal of Membrane Science, 2019, 581, 430-438.	4.1	36
77	Gas Separation Membranes Derived from High-Performance Immiscible Polymer Blends Compatibilized with Small Molecules. ACS Applied Materials & Interfaces, 2015, 7, 18618-18627.	4.0	35
78	Synthesis and Characterization of CuAPO-5 Molecular Sieves:Â Evidence for the Framework Incorporation of Cu(II) Ions. Journal of Physical Chemistry B, 1998, 102, 1379-1386.	1.2	34
79	Selective detection of olefins using a luminescent silver-functionalized metal organic framework, RPM3. Microporous and Mesoporous Materials, 2013, 174, 100-107.	2.2	34
80	The preparation and characterization of an X-type zeolite: An experiment in solid-state chemistry. Journal of Chemical Education, 1991, 68, 875.	1.1	33
81	Enantioselective epoxidations catalyzed by zeolite MCM-22 encapsulated Jacobsen's catalyst. Catalysis Letters, 2001, 74, 77-80.	1.4	33
82	Fabrication of hollow spheres composed of nanosized ZSM-5 crystals via laser ablation. Microporous and Mesoporous Materials, 2005, 86, 14-22.	2.2	33
83	Electrospun Cellulose Acetate-Garnet Nanocomposite Magnetic Fibers for Bioseparations. ACS Applied Materials & Interfaces, 2014, 6, 244-251.	4.0	33
84	The encapsulation of Rh(III) phthalocyanines in zeolites X and Y. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 1991, 10, 141-151.	1.6	32
85	Synthesis of Kenyaite, Magadiite and Octosilicate Using Poly(ethylene glycol) as a Template. Journal of Porous Materials, 2003, 10, 5-15.	1.3	32
86	Novel Delivery System for the Bioregulatory Agent Nitric Oxide. Chemistry of Materials, 2009, 21, 5032-5041.	3.2	32
87	Preparation of partially oriented zeolite MCM-22 membranes via pulsed laser deposition. Microporous and Mesoporous Materials, 2002, 52, 141-150.	2.2	31
88	Novel binder-free electrode materials for supercapacitors utilizing high surface area carbon nanofibers derived from immiscible polymer blends of PBI/6FDA-DAM:DABA. RSC Advances, 2017, 7, 20947-20959.	1.7	31
89	Further studies of DAM-1 mesoporous silica preparations. Microporous and Mesoporous Materials, 2002, 54, 229-248.	2.2	30
90	TiO2 Nanofibers and Core-Shell Structures Prepared Using Mesoporous Molecular Sieves as Templates. Small, 2006, 2, 52-55.	5.2	30

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91	Zeolite Coatings on Three-Dimensional Objects via Laser Ablation. Chemistry of Materials, 1999, 11, 189-191.	3.2	29
92	A Study of Suspending Agents for Gadolinium(III)-Exchanged Hectorite. An Oral Magnetic Resonance Imaging Contrast Agent. Langmuir, 1996, 12, 6277-6281.	1.6	28
93	Molecular imprinting of mesoporous SBA-15 with chiral ruthenium complexes. Microporous and Mesoporous Materials, 2002, 54, 249-255.	2.2	28
94	Preparation and characterization of oriented MAPO-39 membranes. Microporous and Mesoporous Materials, 2000, 38, 107-121.	2.2	27
95	Fabrication of Oriented Silver-Functionalized RPM3 Films for the Selective Detection of Olefins. Langmuir, 2013, 29, 5927-5936.	1.6	26
96	Tuning the crystal size and morphology of the substituted imidazole material, SIM-1. Journal of Porous Materials, 2014, 21, 889-902.	1.3	26
97	Amine-functionalized (Al) MIL-53/VTECâ„¢ mixed-matrix membranes for H2/CO2 mixture separations at high pressure and high temperature. Journal of Membrane Science, 2017, 530, 201-212.	4.1	26
98	Composite membranes with a highly selective polymer skin for hydrogen separation. Separation and Purification Technology, 2014, 135, 190-198.	3.9	25
99	Synthesis and modification of titanium containing wrinkled mesoporous silica for cyclohexene epoxidation. Microporous and Mesoporous Materials, 2017, 243, 76-84.	2.2	25
100	Microwave synthesis of ETS-4 and ETS-4 thin films. Microporous and Mesoporous Materials, 2006, 90, 229-236.	2.2	23
101	Pulsed laser deposition of zeolite NaX thin films on silica fibers. Microporous and Mesoporous Materials, 2002, 56, 47-53.	2.2	22
102	Molecular Sieve Synthesis using Metallocenes as Structure Directing Agents. Materials Research Society Symposia Proceedings, 1994, 368, 369.	0.1	21
103	Synthesis and Characterization of Organosilane Functionalized DAM-1 Mesoporous Silica. Journal of Porous Materials, 2004, 11, 239-254.	1.3	21
104	Proton conducting polyaniline molecular sieve composites. Microporous and Mesoporous Materials, 2005, 81, 321-332.	2.2	21
105	Surface and subsurface characterization of epoxy-mesoporous silica composites to clarify tribological properties. Wear, 2008, 265, 88-96.	1.5	21
106	Photoluminescent and redox active periodic mesoporous organosilicas based on 2,7-diazapyrene. Microporous and Mesoporous Materials, 2008, 112, 1-13.	2.2	21
107	Compatibilized Immiscible Polymer Blends for Gas Separations. Materials, 2016, 9, 643.	1.3	21
108	Biphenyl Wrinkled Mesoporous Silica Nanoparticles for pH-Responsive Doxorubicin Drug Delivery. Materials, 2020, 13, 1998.	1.3	21

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109	The preparation and characterization of AlPO4 thin films via laser ablation of AlPO4-H4. Thin Solid Films, 1995, 260, 4-9.	0.8	20
110	Studies of Gadolinium(III)-Modified Hectorite Clays as Potential Oral MRI Contrast Agents. The Journal of Physical Chemistry, 1996, 100, 16429-16434.	2.9	19
111	The synthesis and characteriztion of UTD-1: The first large pore zeolite based on a 14 membered ring system. Studies in Surface Science and Catalysis, 1997, 105, 415-421.	1.5	19
112	Molecular sieve coatings on spherical substrates via pulsed laser deposition. Microporous and Mesoporous Materials, 2000, 34, 31-42.	2.2	19
113	Nafion-sulfonated dendrimer composite membranes for fuel cell applications. Journal of Membrane Science, 2012, 392-393, 175-180.	4.1	19
114	Electrospinning of Poly(alkoxyphenylenevinylene) and Methanofullerene Nanofiber Blends. ACS Applied Materials & Interfaces, 2009, 1, 1958-1965.	4.0	18
115	Radiotherapeutic bandage for the treatment of squamous cell carcinoma of the skin. Nuclear Medicine and Biology, 2016, 43, 333-338.	0.3	18
116	Proton-conducting membranes based on HTFSI-doped PEI/SiO2 nanocomposites. Journal of Membrane Science, 2008, 313, 91-96.	4.1	17
117	Fabrication of a Substituted Imidazolate Material 1 (SIM-1) membrane using post synthetic modification (PSM) for pervaporation of water/ethanol mixtures. Journal of Porous Materials, 2015, 22, 1275-1284.	1.3	17
118	Synthesis of wrinkled mesoporous carbon. Materials Letters, 2017, 195, 139-142.	1.3	17
119	Lanthanum Hydroxide Nanorod-Templated Graphitic Hollow Carbon Nanorods for Supercapacitors. ACS Omega, 2018, 3, 13913-13918.	1.6	17
120	Direct Synthesis of ZSM-5 and Mordenite Using Poly(ethylene glycol) as a Structure-Directing Agent. Journal of Porous Materials, 2003, 10, 235-242.	1.3	15
121	Liquid phase propylene oxidation with tert-butyl hydroperoxide over titanium containing wrinkled mesoporous silica. Catalysis Communications, 2017, 96, 15-18.	1.6	15
122	Optical encoding with shaped DAM-1 molecular sieve particles. Lab on A Chip, 2003, 3, 132.	3.1	14
123	Transition from a 1D Coordination Polymer to a Mixed-Linker Layered MOF. Inorganic Chemistry, 2019, 58, 5031-5041.	1.9	13
124	Transformation of mesoporous benzene silica to nanoporous carbon. Microporous and Mesoporous Materials, 2006, 91, 276-285.	2.2	12
125	Encapsulation of red sulfur chromophores in a zeolitic imidazolate framework (ZIF-8) via solvent assisted linker exchange. Microporous and Mesoporous Materials, 2016, 219, 172-177.	2.2	12
126	Reduced Aging in Carbon Molecular Sieve Membranes Derived from PIM-1 and MOP-18. Industrial & Engineering Chemistry Research, 2021, 60, 9962-9970.	1.8	12

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127	Molecular Sieve Thin Films via Laser Ablation. Materials Research Society Symposia Proceedings, 1994, 351, 437.	0.1	11
128	Synthesis and characterization of a holmium 2,2â€²-bipyridine-5,5â€²-dicarboxylate MOF: Towards the construction of a suitable holmium carrier. Polyhedron, 2019, 159, 12-17.	1.0	11
129	Yttrium Oxide-Catalyzed Formation of Electrically Conductive Carbon for Supercapacitors. ACS Applied Energy Materials, 2021, 4, 12499-12507.	2.5	11
130	Instrument for gas permeation measurements at high pressure and high temperature. Review of Scientific Instruments, 2013, 84, 065107.	0.6	10
131	Oxidative Dehydrogenation of Cyclohexane and Cyclohexene over Y-doped CeO2 Nanorods. Catalysis Letters, 2017, 147, 738-744.	1.4	10
132	Wrinkled Mesoporous Silica Supported Lanthanum Oxide as a Template for Porous Carbon. Journal of Nanoscience and Nanotechnology, 2018, 18, 414-418.	0.9	10
133	Characterization of a Holmium 4,4â€²-Biphenyldicarboxylate Metal-Organic Framework and Its Potential as a Holmium Carrier System. Journal of Nanoscience and Nanotechnology, 2020, 20, 3019-3024.	0.9	10
134	Molecular Sieve Based Chemical Sensors. Materials Research Society Symposia Proceedings, 1994, 371, 33.	0.1	9
135	The synthesis and characterization of the molecular sieve SAPO-16 as well as other SAPO and CoAPO phases using bis(cyclopentadienyl) cobalt(III) hydroxide as a structure directing agent. Journal of Porous Materials, 1995, 1, 199-206.	1.3	9
136	Fabrication of cellulase protein fibers through concentric electrospinning. Journal of Molecular Catalysis B: Enzymatic, 2011, 72, 1-5.	1.8	9
137	Two-Dimensional Hexagonal-Shaped Mesoporous Carbon Sheets for Supercapacitors. ACS Omega, 2022, 7, 27896-27902.	1.6	9
138	Synthesis of Large Pore Zeolites and Molecular Sieves. Progress in Inorganic Chemistry, 2002, , 217-268.	3.0	8
139	Layer-by-layer assembly of titanate nanosheets/poly- (ethylenimine) on PEN films. Materials Letters, 2012, 66, 242-245.	1.3	8
140	Metal Oxide Nanotube, Nanorod, and Quantum Dot Photocatalysis. , 2013, , 213-244.		8
141	Coated melt-spun acrylonitrile-based suture for delayed release of nitric oxide. Materials Letters, 2014, 125, 221-223.	1.3	8
142	Critical Rare Earth Element Recovery from Coal Ash Using Microsphere Flower Carbon. ACS Applied Materials & Interfaces, 2021, 13, 48492-48499.	4.0	8
143	Graphene-like Carbon from Calcium Hydroxide. ACS Omega, 2021, 6, 31066-31076.	1.6	8
144	Magnesium Hydroxide Templated Hierarchical Porous Carbon Nanosheets as Electrodes for High-Energy-Density Supercapacitors. ACS Applied Energy Materials, 2022, 5, 6805-6813.	2.5	8

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145	Synthesis of DAM-1 molecular sieves containing single walled carbon nanotubes. Microporous and Mesoporous Materials, 2004, 67, 61-65.	2.2	7
146	Synthesis of proton conducting tungstosilicate mesoporous materials and polymer composite membranes. Microporous and Mesoporous Materials, 2005, 81, 217-234.	2.2	7
147	Mesoporous benzene silica functionalized with various amine groups. Microporous and Mesoporous Materials, 2008, 108, 86-94.	2.2	7
148	Microwave synthesis of gallium zinc phosphate NTHU-4. Microporous and Mesoporous Materials, 2008, 113, 325-332.	2.2	7
149	Aromatic Polyimides Containing Diaminobenzoic Acid as in Situ Porogen for Electrochemical Supercapacitors. ACS Applied Polymer Materials, 2019, 1, 3203-3209.	2.0	7
150	Nanocast carbon microsphere flowers from a lanthanum-based template. Materials Letters, 2019, 234, 224-227.	1.3	7
151	Holmium-based metal-organic frameworks using the BDC linker. Polyhedron, 2021, 205, 115283.	1.0	7
152	The Application Of Molecular Sieves As Magnetic Resonance Imaging Contrast Agents. Materials Research Society Symposia Proceedings, 1991, 233, 225.	0.1	6
153	Molecular Sieve Based Chemical Sensors. Materials Research Society Symposia Proceedings, 1994, 351, 263.	0.1	6
154	Synthesis and Characterization of GaPO₄ Molecular Sieves Using Metal Complexes as Templates. Materials Research Society Symposia Proceedings, 1996, 454, 217.	0.1	6
155	Preparation and Characterization of Mordenite Thin Films via Pulsed Laser Deposition. Journal of Porous Materials, 2004, 11, 191-209.	1.3	6
156	Novel Polysilsesquioxane Hybrid Membranes for Proton Exchange Membrane Fuel Cell (PEMFC) Applications. Separation Science and Technology, 2008, 43, 3981-4008.	1.3	6
157	Wrinkled mesoporous carbon supported Pd nanoparticles for hydrogenation and aerobic oxidation reactions. Journal of Porous Materials, 2018, 25, 15-21.	1.3	6
158	Hybrid supercapacitors using electrodes from fibers comprising polymer blendâ€“metal oxide composites with polymethacrylic acid as chelating agent. Nanotechnology, 2021, 32, 325401.	1.3	6
159	Mixed Matrix Membranes Based on Metal Organic Frameworks. , 2012, , 83-93.		6
160	Microperoxidase-11 Immobilized in a Metal Organic Framework. ACS Symposium Series, 2008, , 76-98.	0.5	5
161	Microwave assisted synthesis of ETS-10. Journal of Porous Materials, 2009, 16, 487.	1.3	5
162	Synthesis and Characterization of DAM-1 type Materials. Materials Research Society Symposia Proceedings, 2000, 628, 1.	0.1	5

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163	Selective Matrimid Membranes Containing Mesoporous Molecular Sieves. Materials Research Society Symposia Proceedings, 2002, 752, 1.	0.1	4
164	Preparation and characterization of UTD-12/ZSM-48 thin films via pulsed-laser deposition. Microporous and Mesoporous Materials, 2005, 81, 125-134.	2.2	4
165	Synthesis of TiO₂nanotube films via pulsed laser deposition followed by a hydrothermal treatment. Journal of Experimental Nanoscience, 2014, 9, 126-137.	1.3	4
166	The Importance of Evaluating the Lot-to-Lot Batch Consistency of Commercial Multi-Walled Carbon Nanotube Products. Nanomaterials, 2020, 10, 1930.	1.9	3
167	Preparation of a Delivery System for Smart Coatings by Electrostatic Deposition. ACS Symposium Series, 2010, , 31-44.	0.5	2
168	Storage and Release of Nitric Oxide from Molecular Sieve Nanoparticles. ACS Symposium Series, 2010, , 181-192.	0.5	2
169	Pulsed Laser Ablation of Low-Density Nanoporous Metal Oxides. Materials Research Society Symposia Proceedings, 1998, 526, 391.	0.1	1
170	A novel pathway to TiO2, TiO2-SnO2 nanofibers and core shell structures from mesoporous molecular sieves. Studies in Surface Science and Catalysis, 2007, 170, 1514-1521.	1.5	1
171	Preparation and Charaterization of DAM-1 type Materials. Materials Research Society Symposia Proceedings, 2000, 662, 1.	0.1	0
172	Preparation of Line Patterned Mesoporous DAM-1 Thin Films via Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2001, 704, 10111.	0.1	0
173	The Preparation of Partially Oriented Zeolite Thin Films via Pulsed Laser Ablation. Materials Research Society Symposia Proceedings, 2002, 752, 1.	0.1	0
174	Novel Strategies for the Preparation of TiO2 Nanofibers. Materials Research Society Symposia Proceedings, 2004, 836, L5.14.1.	0.1	0
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