

# Prabir K Dutta

## List of Publications by Year in descending order

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212  
papers

9,361  
citations

38742

50  
h-index

62596

80  
g-index

214  
all docs

214  
docs citations

214  
times ranked

9729  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-flux, efficient and reusable zeolite/stainless steel meshes for oil/water separation. <i>Microporous and Mesoporous Materials</i> , 2022, 336, 111870.	4.4	4
2	Nanoparticle processing: Understanding and controlling aggregation. <i>Advances in Colloid and Interface Science</i> , 2020, 279, 102162.	14.7	212
3	Modification of a continuous zeolite membrane grown within porous polyethersulfone with Ag(I) cations for enhanced propylene/propane gas separation. <i>Microporous and Mesoporous Materials</i> , 2019, 279, 178-185.	4.4	11
4	Zeolite-supported silver as antimicrobial agents. <i>Coordination Chemistry Reviews</i> , 2019, 383, 1-29.	18.8	85
5	Fabrication of high-performance antifogging and antireflective coatings using faujasitic nanozeolites. <i>Microporous and Mesoporous Materials</i> , 2018, 263, 62-70.	4.4	19
6	Photochemical Water Oxidation in a Buffered Tris(2,2'-bipyridyl)ruthenium <sup>II</sup> -Persulfate System Using Iron(III)-Modified Potassium Manganese Oxides as Catalysts. <i>ACS Omega</i> , 2018, 3, 11972-11981.	3.5	5
7	Influence of Cross-Linking, Temperature, and Humidity on CO <sub>2</sub> /N <sub>2</sub> Separation Performance of PDMS Coated Zeolite Membranes Grown within a Porous Poly(ether sulfone) Polymer. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 6065-6077.	3.7	9
8	SO <sub>2</sub> interference on separation performance of amine-containing facilitated transport membranes for CO <sub>2</sub> capture from flue gas. <i>Journal of Membrane Science</i> , 2017, 534, 33-45.	8.2	38
9	Synthesis method for introducing mesoporosity in a faujasitic-like zeolite system from a sodium aluminosilicate gel composition. <i>Microporous and Mesoporous Materials</i> , 2017, 239, 195-208.	4.4	9
10	Building Selectivity for NO Sensing in a NO <sub>x</sub> Mixture with Sonochemically Prepared CuO Structures. <i>Chemosensors</i> , 2016, 4, 1.	3.6	27
11	Tolerance of polymer-zeolite composite membranes to mechanical strain. <i>Journal of Membrane Science</i> , 2016, 518, 192-202.	8.2	16
12	Rapid and high yield synthesis method of colloidal nano faujasite. <i>Microporous and Mesoporous Materials</i> , 2016, 230, 89-99.	4.4	12
13	Infrared Spectroscopic Study of Reaction of Carbon Dioxide with Aqueous Monoethanolamine Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 6276-6283.	3.7	43
14	Photochemical Water Oxidation by Manganese Oxides Supported on Zeolite Surfaces. <i>ChemistrySelect</i> , 2016, 1, 1431-1440.	1.5	7
15	Synthesis of chabazite/polymer composite membrane for CO <sub>2</sub> /N <sub>2</sub> separation. <i>Microporous and Mesoporous Materials</i> , 2016, 230, 208-216.	4.4	17
16	Critical assessment of toxicological effects of ingested nanoparticles. <i>Environmental Science: Nano</i> , 2016, 3, 256-282.	4.3	63
17	Selective detection of part per billion concentrations of ammonia using a ZnO semiconducting oxide heterostructure. <i>Sensors and Actuators B: Chemical</i> , 2016, 226, 156-169.	7.8	26
18	Fabrication of zeolite/polymer composite membranes in a roller assembly. <i>Microporous and Mesoporous Materials</i> , 2016, 223, 247-253.	4.4	19

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19	Multilayer polymer/zeolite Y composite membrane structure for CO <sub>2</sub> capture from flue gas. <i>Journal of Membrane Science</i> , 2016, 498, 1-13.	8.2	55
20	Amine-containing polymer/zeolite Y composite membranes for CO <sub>2</sub> /N <sub>2</sub> separation. <i>Journal of Membrane Science</i> , 2016, 497, 21-28.	8.2	101
21	Uptake of bright fluorophore core-silica shell nanoparticles by biological systems. <i>International Journal of Nanomedicine</i> , 2015, 10, 1547.	6.7	17
22	Rapid synthesis of faujasite/polyethersulfone composite membrane and application for CO <sub>2</sub> /N <sub>2</sub> separation. <i>Microporous and Mesoporous Materials</i> , 2015, 208, 72-82.	4.4	28
23	Bendable Zeolite Membranes: Synthesis and Improved Gas Separation Performance. <i>Langmuir</i> , 2015, 31, 6894-6901.	3.5	22
24	Rapid Synthesis Method of Faujasitic Zeolite Frameworks Probed with Eu(III) Fluorescence Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15491-15499.	3.1	9
25	Anchoring of cobalt hydroxide catalysts on nanozeolite crystals for photocatalytic water oxidation. <i>Microporous and Mesoporous Materials</i> , 2015, 217, 125-132.	4.4	17
26	Fabrication of zeolite/polymer multilayer composite membranes for carbon dioxide capture: Deposition of zeolite particles on polymer supports. <i>Journal of Colloid and Interface Science</i> , 2015, 452, 203-214.	9.4	14
27	Microfabricated electrochemical sensors for combustion applications. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
28	Synthesis of Au@SnO <sub>2</sub> core-shell nanoparticles with controllable shell thickness and their CO sensing properties. <i>Materials Chemistry and Physics</i> , 2015, 166, 87-94.	4.0	28
29	New Pebax®/zeolite Y composite membranes for CO <sub>2</sub> capture from flue gas. <i>Journal of Membrane Science</i> , 2015, 495, 415-423.	8.2	101
30	Oxidative stress-mediated inhibition of intestinal epithelial cell proliferation by silver nanoparticles. <i>Toxicology in Vitro</i> , 2015, 29, 1793-1808.	2.4	21
31	Novel strategies for development of gas sensors for combustion and medical applications. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
32	High-Temperature Ceramic Electrochemical Sensors. , 2014, , 973-981.		1
33	Interaction of ammonia with intrazeolitic silver ions: Development of an ammonia sensor. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 542-551.	7.8	15
34	Evolution of Silver Nanoparticles within an Aqueous Dispersion of Nanosized Zeolite Y: Mechanism and Applications. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28580-28591.	3.1	22
35	Rapid Crystallization of Faujasitic Zeolites: Mechanism and Application to Zeolite Membrane Growth on Polymer Supports. <i>Langmuir</i> , 2014, 30, 6929-6937.	3.5	33
36	Development of nanosized lanthanum strontium aluminum manganite as electrodes for potentiometric oxygen sensor. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 670-676.	7.8	8

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37	Topotactic Transformation of Zeolite Supported Cobalt(II) Hydroxide to Oxide and Comparison of Photocatalytic Oxygen Evolution. ACS Catalysis, 2014, 4, 9-15.	11.2	27
38	Spectroscopic Evaluation of the Nucleation and Growth for Microwave-Assisted CdSe/CdS/ZnS Quantum Dot Synthesis. Journal of Physical Chemistry C, 2014, 118, 22258-22267.	3.1	11
39	Light Activated Processes with Zeolites: Recent Developments. , 2013, , 49-62.		0
40	Nitric oxide sensors using combination of p- and n-type semiconducting oxides and its application for detecting NO in human breath. Sensors and Actuators B: Chemical, 2013, 186, 117-125.	7.8	57
41	Smart Sensor Systems for Human Health Breath Monitoring Applications. , 2013, , 325-341.		1
42	Minimal Intestinal Epithelial Cell Toxicity in Response to Short- and Long-Term Food-Relevant Inorganic Nanoparticle Exposure. Chemical Research in Toxicology, 2013, 26, 1514-1525.	3.3	88
43	Influence of Crystallite Size on Cation Conductivity in Faujasitic Zeolites. Journal of Physical Chemistry A, 2013, 117, 13704-13711.	2.5	8
44	Room temperature impedance spectroscopy-based sensing of formaldehyde with porous TiO <sub>2</sub> under UV illumination. Sensors and Actuators B: Chemical, 2013, 185, 1-9.	7.8	125
45	Interface reaction and its effect on the performance of a CO <sub>2</sub> gas sensor based on Li <sub>0.35</sub> La <sub>0.55</sub> TiO <sub>3</sub> electrolyte and Li <sub>2</sub> CO <sub>3</sub> sensing electrode. Sensors and Actuators B: Chemical, 2013, 182, 95-103.	7.8	18
46	Tuning the Activities and Structures of Enzymes Bound to Graphene Oxide with a Protein Glue. Langmuir, 2013, 29, 15643-15654.	3.5	38
47	Exploitation of Unique Properties of Zeolites in the Development of Gas Sensors. Sensors, 2012, 12, 5170-5194.	3.8	92
48	Effects of Surface and Morphological Properties of Zeolite on Impedance Spectroscopy-Based Sensing Performance. Sensors, 2012, 12, 13284-13294.	3.8	4
49	Water Oxidation Catalysis using Amorphous Manganese Oxides, Octahedral Molecular Sieves (OMS-2), and Octahedral Layered (OL-1) Manganese Oxide Structures. Journal of Physical Chemistry C, 2012, 116, 6474-6483.	3.1	267
50	Contrast of the Biological Activity of Negatively and Positively Charged Microwave Synthesized CdSe/ZnS Quantum Dots. Chemical Research in Toxicology, 2011, 24, 2176-2188.	3.3	22
51	Physicochemical and Toxicological Properties of Commercial Carbon Blacks Modified by Reaction with Ozone. Environmental Science & Technology, 2011, 45, 10668-10675.	10.0	23
52	Assembly of Nanoparticles in Zeolite Y for the Photocatalytic Generation of Hydrogen from Water. Journal of Physical Chemistry C, 2011, 115, 2938-2947.	3.1	41
53	Vibrational and electronic spectra of 9,10-dihydrobenzo(a)pyren-7(8H)-one and 7,8,9,10-tetrahydrobenzo(a)pyrene: An experimental and computational study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 81, 162-171.	3.9	7
54	Photoelectron Transfer in Zeolite Cages and Its Relevance to Solar Energy Conversion. Journal of Physical Chemistry Letters, 2011, 2, 467-476.	4.6	55

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55	Synthesis of Au/SnO <sub>2</sub> core-shell structure nanoparticles by a microwave-assisted method and their optical properties. <i>Journal of Solid State Chemistry</i> , 2011, 184, 312-316.	2.9	34
56	Interaction of CO with hydrous ruthenium oxide and development of a chemoresistive ambient CO sensor. <i>Sensors and Actuators B: Chemical</i> , 2011, 152, 307-315.	7.8	51
57	Examination of Au/SnO <sub>2</sub> core-shell architecture nanoparticle for low temperature gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 444-449.	7.8	84
58	Development of high sensitivity potentiometric NO <sub>x</sub> sensor and its application to breath analysis. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 292-298.	7.8	61
59	Smart Sensor Systems for Spacecraft Fire Detection and Air Quality Monitoring. , 2011, , .		5
60	Silver nanoparticles embedded in zeolite membranes: release of silver ions and mechanism of antibacterial action. <i>International Journal of Nanomedicine</i> , 2011, 6, 1833.	6.7	139
61	Examination of Bacillus anthracis Spores by Multiparameter Flow Cytometry. <i>Methods in Molecular Biology</i> , 2011, 739, 37-48.	0.9	0
62	Ultrafast Electron Transfer Dynamics in Ruthenium Polypyridyl Complexes with a $\pi$ -Conjugated Ligand. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14679-14688.	2.6	27
63	Synthesis of silver-zeolite films on micropatterned porous alumina and its application as an antimicrobial substrate. <i>Microporous and Mesoporous Materials</i> , 2010, 135, 131-136.	4.4	41
64	High temperature potentiometric NO <sub>2</sub> sensor with asymmetric sensing and reference Pt electrodes. <i>Sensors and Actuators B: Chemical</i> , 2010, 143, 459-463.	7.8	35
65	Smart Chemical Sensor Systems for Fire Detection and Environmental Monitoring in Spacecraft. , 2010, , .		4
66	Fenton Activity and Cytotoxicity Studies of Iron-Loaded Carbon Particles. <i>Environmental Science &amp; Technology</i> , 2010, 44, 6887-6892.	10.0	8
67	Interaction of Dimethylmethylphosphonate with Zeolite Y: Impedance-Based Sensor for Detecting Nerve Agent Simulants. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7986-7994.	3.1	33
68	Synthesis of Ultrathin Zeolite Y Membranes and their Application for Separation of Carbon Dioxide and Nitrogen Gases. <i>Langmuir</i> , 2010, 26, 10287-10293.	3.5	119
69	Solution-based synthesis of efficient WO <sub>3</sub> sensing electrodes for high temperature potentiometric NO <sub>x</sub> sensors. <i>Sensors and Actuators B: Chemical</i> , 2009, 136, 523-529.	7.8	26
70	High temperature potentiometric carbon dioxide sensor with minimal interference to humidity. <i>Sensors and Actuators B: Chemical</i> , 2009, 142, 337-341.	7.8	28
71	Study of the resistance behavior of anatase and rutile thick films towards carbon monoxide and oxygen at high temperatures and possibilities for sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2009, 143, 308-315.	7.8	44
72	Detection of Bacillus anthracis spores: comparison of quantum dot and organic dye labeling agents. <i>Advanced Powder Technology</i> , 2009, 20, 438-446.	4.1	5

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73	Optical Spectroscopic Studies of Mononitrated Benzo[ <i>a</i> ]pyrenes. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12558-12565.	2.5	19
74	Ruthenium Polypyridyl Complexes Containing a Conjugated Ligand LDQ (LDQ =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 Td (1-[4-(4a	3.1	15
75	Characterization, and Photoinduced Electron Transfer at Solution~Zeolite Interfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4623-4633.	3.1	48
76	Direct Synthesis of Aqueous CdSe/ZnS-Based Quantum Dots Using Microwave Irradiation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12132-12139.	14.9	27
77	Synthesis of Thin, Oriented Zeolite A Membranes on a Macroporous Support. <i>Advanced Functional Materials</i> , 2008, 18, 952-958.	7.8	11
78	Compact electrochemical bifunctional NO <sub>x</sub> /O <sub>2</sub> sensor with metal/metal oxide internal reference electrode for high temperature applications. <i>Sensors and Actuators B: Chemical</i> , 2008, 131, 448-454.	7.8	12
79	Multi-walled carbon nanotubes as high temperature carbon monoxide sensors. <i>Sensors and Actuators B: Chemical</i> , 2008, 134, 640-646.	4.4	16
80	Synthesis of zeolite L membranes with sub-micron to micron thicknesses. <i>Microporous and Mesoporous Materials</i> , 2008, 115, 389-398.	3.1	97
81	Effect of Microwave Frequency on Hydrothermal Synthesis of Nanocrystalline Tetragonal Barium Titanate. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9659-9667.	3.5	16
82	Entrapment of Ionic Tris(2,2~Bipyridyl) Ruthenium(II) in Hydrophobic Siliceous Zeolite: O <sub>2</sub> Sensing in Biological Environments. <i>Langmuir</i> , 2008, 24, 9140-9147.	2.5	12
83	Visible-Light-Driven Photoreactions of [(bpy) <sub>2</sub> Ru(II)L]Cl <sub>2</sub> in Aqueous Solutions (bpy = Bipyridine, L = 1,2-Bis(4-(4~methyl)-2,2~bipyridyl) Ethene). <i>Journal of Physical Chemistry A</i> , 2008, 112, 808-817.	3.1	14
84	Identification and Characterization of <i>Bacillus anthracis</i> Spores by Multiparameter Flow Cytometry. <i>Applied and Environmental Microbiology</i> , 2008, 74, 5220-5223.	3.1	13
85	An Integrated Zeolite Membrane/RuO <sub>2</sub> Photocatalyst System for Hydrogen Production from Water. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10575-10581.	3.1	26
86	Influence of Solid-State Reactions at the Electrode~Electrolyte Interface on High-Temperature Potentiometric NO <sub>x</sub> -Gas Sensors. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8307-8313.	3.3	34
87	Inflammatory Properties of Iron-Containing Carbon Nanoparticles. <i>Chemical Research in Toxicology</i> , 2007, 20, 1149-1154.	4.4	102
88	Zeta potential measurements of zeolite Y: Application in homogeneous deposition of particle coatings. <i>Microporous and Mesoporous Materials</i> , 2007, 103, 102-107.	7.8	50
89	High temperature amperometric total NO <sub>x</sub> sensors with platinum-loaded zeolite Y electrodes. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 929-936.	7.8	45
90	Promoting selectivity and sensitivity for a high temperature YSZ-based electrochemical total NO <sub>x</sub> sensor by using a Pt-loaded zeolite Y filter. <i>Sensors and Actuators B: Chemical</i> , 2007, 125, 30-39.	7.8	19
90	High temperature sensor array for simultaneous determination of O <sub>2</sub> , CO, and CO <sub>2</sub> with kernel ridge regression data analysis. <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 950-963.		

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91	High temperature zirconia oxygen sensor with sealed metal/metal oxide internal reference. <i>Sensors and Actuators B: Chemical</i> , 2007, 124, 192-201.	7.8	53
92	Mixed Ionic and Electronic Conduction in Li <sub>3</sub> PO <sub>4</sub> Electrolyte for a CO <sub>2</sub> Gas Sensor. <i>Journal of the Electrochemical Society</i> , 2006, 153, H4.	2.9	24
93	Interaction of Water with Titania: Implications for High-Temperature Gas Sensing. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5647-5654.	2.6	30
94	Structure and Vibrational Spectra of Mononitrated Benzo[a]pyrenes. <i>Journal of Physical Chemistry A</i> , 2006, 110, 76-84.	2.5	39
95	Influence of Microwave Radiation on the Growth of Gold Nanoparticles and Microporous Zincophosphates in a Reverse Micellar System. <i>Langmuir</i> , 2006, 22, 4825-4831.	3.5	23
96	High-Temperature Ceramic Gas Sensors: A Review. <i>International Journal of Applied Ceramic Technology</i> , 2006, 3, 302-311.	2.1	164
97	Controlled release of paraquat from surface-modified zeolite Y. <i>Microporous and Mesoporous Materials</i> , 2006, 88, 312-318.	4.4	65
98	Dependence of potentiometric oxygen sensing characteristics on the nature of electrodes. <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 162-168.	7.8	30
99	Correlation of catalytic activity and sensor response in TiO <sub>2</sub> high temperature gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 1-3.	7.8	16
100	A SENSOR ARRAY FOR CONTROL OF ENGINE EXHAUST AFTER-TREATMENT SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005, 38, 236-241.	0.4	1
101	Temperature-controlled CO, CO <sub>2</sub> and NO <sub>x</sub> sensing in a diesel engine exhaust stream. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 839-848.	7.8	32
102	Comparison of Ultrastructural Cytotoxic Effects of Carbon and Carbon/Iron Particulates on Human Monocyte-Derived Macrophages. <i>Environmental Health Perspectives</i> , 2005, 113, 170-174.	6.0	22
103	Fenton Chemistry of Fe <sup>III</sup> -Exchanged Zeolitic Minerals Treated with Antioxidants. <i>Environmental Science &amp; Technology</i> , 2005, 39, 6147-6152.	10.0	28
104	Zeolite Membrane-Based Artificial Photosynthetic Assembly for Long-Lived Charge Separation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6929-6932.	2.6	54
105	Nitration of Benzo[a]pyrene Adsorbed on Coal Fly Ash Particles by Nitrogen Dioxide: Role of Thermal Activation. <i>Environmental Science &amp; Technology</i> , 2005, 39, 6971-6977.	10.0	12
106	Photochemical studies with a zeolite Y membrane formed via secondary growth. <i>Research on Chemical Intermediates</i> , 2004, 30, 147-161.	2.7	11
107	Macrophage-Mediated Endothelial Inflammatory Responses to Airborne Particulates: Impact of Particulate Physicochemical Properties. <i>Chemical Research in Toxicology</i> , 2004, 17, 1303-1312.	3.3	23
108	Oxidation chemistry and electrical activity of Pt on titania: development of a novel zeolite-filter hydrocarbon sensor. <i>Sensors and Actuators B: Chemical</i> , 2004, 102, 132-141.	7.8	59

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109	Correlation of sensing behavior of mixed potential sensors with chemical and electrochemical properties of electrodes. <i>Solid State Ionics</i> , 2004, 171, 183-190.	2.7	97
110	The directing role of 1,4-diazabicyclo[2,2,2]octane (DABCO)-phosphate unit in synthesis of zincophosphate faujasite (ZnPO-X). <i>Microporous and Mesoporous Materials</i> , 2004, 71, 149-155.	4.4	3
111	Existence of Colloidal Primitive Building Units Exhibiting Memory Effects in Zeolite Growth Compositions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 20465-20470.	2.6	12
112	DENSITY FUNCTIONAL THEORETICAL STUDY OF NITRATED POLYCYCLIC AROMATIC HYDROCARBONS. <i>Polycyclic Aromatic Compounds</i> , 2004, 24, 37-64.	2.6	33
113	Handbook of Layered Materials. , 2004, , .		230
114	Development of a dissolved oxygen sensor using tris(bipyridyl) ruthenium (II) complexes entrapped in highly siliceous zeolites. <i>Microporous and Mesoporous Materials</i> , 2003, 64, 109-118.	4.4	45
115	Oxygen transport in zeolite Y measured by quenching of encapsulated tris(bipyridyl)ruthenium. <i>Microporous and Mesoporous Materials</i> , 2003, 60, 79-90.	4.4	22
116	Zeolite-supported ruthenium oxide catalysts for photochemical reduction of water to hydrogen. <i>Microporous and Mesoporous Materials</i> , 2003, 62, 107-120.	4.4	24
117	Strategies for total NO <sub>x</sub> measurement with minimal CO interference utilizing a microporous zeolitic catalytic filter. <i>Sensors and Actuators B: Chemical</i> , 2003, 88, 168-177.	7.8	81
118	Detection of CO in a reducing, hydrous environment using CuBr as electrolyte. <i>Sensors and Actuators B: Chemical</i> , 2003, 92, 351-355.	7.8	15
119	Zeolite-Mediated Photochemical Charge Separation Using a Surface-Entrapped Ruthenium <sup>II</sup> -Polypyridyl Complex. <i>Inorganic Chemistry</i> , 2003, 42, 4215-4222.	4.0	21
120	Effect of Rotational Mobility on Photoelectron Transfer: A Comparison of Two Zeolite Topologies. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11000-11007.	2.6	8
121	Photochemical processes in zeolites: new developments. <i>Current Opinion in Solid State and Materials Science</i> , 2003, 7, 483-490.	11.5	16
122	The effect of iron on the biological activities of erionite and mordenite. <i>Environment International</i> , 2003, 29, 451-458.	10.0	26
123	Zeolites. , 2003, , .		17
124	Novel Surface Structure of Microporous Faujasitic-like Zincophosphate Crystals Grown via Reverse Micelles. <i>Langmuir</i> , 2002, 18, 8193-8197.	3.5	30
125	Charge Transport through a Novel Zeolite Y Membrane by a Self-Exchange Process. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11898-11904.	2.6	29
126	Aqueous Transformations of Zincophosphate Microporous Materials: Influence of Framework Topology. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2146-2152.	2.6	8



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127	Analysis of the biological and chemical reactivity of zeolite-based aluminosilicate fibers and particulates.. Environmental Health Perspectives, 2002, 110, 1087-1096.	6.0	50
128	Microporous zeolite modified yttria stabilized zirconia (YSZ) sensors for nitric oxide (NO) determination in harsh environments. Sensors and Actuators B: Chemical, 2002, 82, 142-149.	7.8	75
129	Sensing of carbon monoxide gas in reducing environments. Sensors and Actuators B: Chemical, 2002, 84, 189-193.	7.8	20
130	Carbon monoxide sensor for PEM fuel cell systems. Sensors and Actuators B: Chemical, 2002, 87, 414-420.	7.8	24
131	A phosphate-based proton conducting solid electrolyte hydrocarbon gas sensor. Sensors and Actuators B: Chemical, 2002, 87, 480-486.	7.8	20
132	TiO <sub>2</sub> -based sensor arrays modeled with nonlinear regression analysis for simultaneously determining CO and O <sub>2</sub> concentrations at high temperatures. Sensors and Actuators B: Chemical, 2002, 87, 471-479.	7.8	35
133	Electron Transfer Processes in Zeolites and Related Microheterogeneous Media.. ChemInform, 2002, 33, 246-246.	0.0	0
134	Spectroscopic Studies of Colloidal Solutions of Nanocrystalline Ru(bpy) <sub>3</sub> <sup>2+</sup> Zeolite Y. Journal of Physical Chemistry B, 2001, 105, 1537-1542.	2.6	26
135	Raman microprobe studies of dissolution of microporous faujasitic-like zincophosphate crystals. Microporous and Mesoporous Materials, 2001, 42, 235-243.	4.4	11
136	Composite n-type semiconducting titanium oxides as gas sensors. Sensors and Actuators B: Chemical, 2001, 79, 17-27.	7.8	206
137	Titanium dioxide based high temperature carbon monoxide selective sensor. Sensors and Actuators B: Chemical, 2001, 72, 239-248.	7.8	194
138	Synthesis of microporous faujasitic-like zincophosphates from reverse micelles. Microporous and Mesoporous Materials, 2000, 34, 61-65.	4.4	13
139	Synthesis of free-standing chabazite-type films. Microporous and Mesoporous Materials, 2000, 38, 151-159.	4.4	18
140	Crystal Growth of Faujasitic Microporous Zincophosphate Crystals Using Reverse Micelles as Reactants. Langmuir, 2000, 16, 4148-4153.	3.5	32
141	Zeolite-Induced Solvation Effects on Excited-State Properties of Ru(bpy) <sub>3</sub> <sup>2+</sup> : Implications for Intrazeolitic Photochemical Quenching Reactions. Journal of Physical Chemistry B, 2000, 104, 10783-10788.	2.6	22
142	Analysis of the Photodecomposition Products of Ru(bpy) <sub>3</sub> <sup>2+</sup> in Various Buffers and upon Zeolite Encapsulation. Analytical Chemistry, 2000, 72, 5219-5224.	6.5	47
143	Use of surface-modified zeolite Y for extraction of metal ions from aqueous to organic phase. Microporous and Mesoporous Materials, 1999, 32, 29-35.	4.4	37
144	On the Nature and Extent of Intermolecular Interactions between Entrapped Complexes of Ru(bpy) <sub>3</sub> <sup>2+</sup> in Zeolite Y. Journal of Physical Chemistry B, 1999, 103, 309-320.	2.6	57

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