

Jesus Santamaria

List of Publications by Year in descending order

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285
papers

12,142
citations

25034

57
h-index

39675

94
g-index

290
all docs

290
docs citations

290
times ranked

14773
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic nanoparticles for drug delivery. <i>Nano Today</i> , 2007, 2, 22-32.	11.9	1,347
2	A Magnetically Triggered Composite Membrane for On-Demand Drug Delivery. <i>Nano Letters</i> , 2009, 9, 3651-3657.	9.1	335
3	Magnetically Triggered Nanocomposite Membranes: A Versatile Platform for Triggered Drug Release. <i>Nano Letters</i> , 2011, 11, 1395-1400.	9.1	241
4	Development of Magnetic Nanostructured Silica-Based Materials as Potential Vectors for Drug-Delivery Applications. <i>Chemistry of Materials</i> , 2006, 18, 1911-1919.	6.7	226
5	Cancer-derived exosomes loaded with ultrathin palladium nanosheets for targeted bioorthogonal catalysis. <i>Nature Catalysis</i> , 2019, 2, 864-872.	34.4	218
6	Separations Using Zeolite Membranes. <i>Separation and Purification Reviews</i> , 1999, 28, 127-177.	0.8	211
7	Near-infrared-actuated devices for remotely controlled drug delivery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1349-1354.	7.1	177
8	Assessing Methods for Blood Cell Cytotoxic Responses to Inorganic Nanoparticles and Nanoparticle Aggregates. <i>Small</i> , 2008, 4, 2025-2034.	10.0	166
9	Exosome origin determines cell targeting and the transfer of therapeutic nanoparticles towards target cells. <i>Journal of Nanobiotechnology</i> , 2019, 17, 16.	9.1	162
10	Separation of CO ₂ /N ₂ mixtures using MFI-type zeolite membranes. <i>AIChE Journal</i> , 2004, 50, 127-135.	3.6	155
11	Dehydrogenation of isopropyl alcohol on a Cu/SiO ₂ catalyst: a study of the activity evolution and reactivation of the catalyst. <i>Applied Catalysis A: General</i> , 1996, 142, 375-386.	4.3	129
12	Gold-Triggered Uncaging Chemistry in Living Systems. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12548-12552.	13.8	128
13	Preparation and characterization of chitosan-silver nanocomposite films and their antibacterial activity against <i>Staphylococcus aureus</i> . <i>Nanotechnology</i> , 2013, 24, 015101.	2.6	124
14	State-of-the-Art in Zeolite Membrane Reactors. <i>Topics in Catalysis</i> , 2004, 29, 29-44.	2.8	116
15	Zeolite films and membranes. Emerging applications. <i>Microporous and Mesoporous Materials</i> , 2011, 144, 19-27.	4.4	115
16	Use of zeolite films to improve the selectivity of reactive gas sensors. <i>Catalysis Today</i> , 2003, 82, 179-185.	4.4	114
17	Sustained release of doxorubicin from zeolite-magnetite nanocomposites prepared by mechanical activation. <i>Nanotechnology</i> , 2006, 17, 4057-4064.	2.6	114
18	The use of zeolite films in small-scale and micro-scale applications. <i>Chemical Engineering Science</i> , 2004, 59, 4879-4885.	3.8	107

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19	Efficient encapsulation of theranostic nanoparticles in cell-derived exosomes: leveraging the exosomal biogenesis pathway to obtain hollow gold nanoparticle-hybrids. <i>Nanoscale</i> , 2019, 11, 18825-18836.	5.6	103
20	Removal of pollutants from indoor air using zeolite membranes. <i>Journal of Membrane Science</i> , 2004, 240, 159-166.	8.2	92
21	Methane oxidative coupling using porous ceramic membrane reactorsâ€™II. Reaction studies. <i>Chemical Engineering Science</i> , 1994, 49, 2015-2025.	3.8	91
22	Uniform luminescent carbon nanodots prepared by rapid pyrolysis of organic precursors confined within nanoporous templating structures. <i>Carbon</i> , 2017, 117, 437-446.	10.3	91
23	Methane oxidative coupling using porous ceramic membrane reactorsâ€™I. reactor development. <i>Chemical Engineering Science</i> , 1994, 49, 2005-2013.	3.8	89
24	A controlled antibiotic release system to prevent orthopedic-implant associated infections: An in vitro study. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 96, 264-271.	4.3	88
25	Size-dependent transfection efficiency of PEI-coated gold nanoparticles. <i>Acta Biomaterialia</i> , 2011, 7, 3645-3655.	8.3	86
26	Reaction Engineering Strategies for the Production of Inorganic Nanomaterials. <i>Small</i> , 2014, 10, 835-853.	10.0	86
27	Bactericidal effects of different silver-containing materials. <i>Materials Research Bulletin</i> , 2011, 46, 2070-2076.	5.2	85
28	Non-oxidative methane conversion in microwave-assisted structured reactors. <i>Chemical Engineering Journal</i> , 2019, 377, 119764.	12.7	85
29	Preparation of Magnetic Nanoparticles Encapsulated by an Ultrathin Silica Shell via Transformation of Magnetic Fe-MCM-41. <i>Chemistry of Materials</i> , 2008, 20, 486-493.	6.7	84
30	Development of Stable, Water-Dispersible, and Biofunctionalizable Superparamagnetic Iron Oxide Nanoparticles. <i>Chemistry of Materials</i> , 2011, 23, 2795-2802.	6.7	84
31	Highly magnetic silica-coated iron nanoparticles prepared by the arc-discharge method. <i>Nanotechnology</i> , 2006, 17, 1188-1192.	2.6	83
32	Scaled-up production of plasmonic nanoparticles using microfluidics: from metal precursors to functionalized and sterilized nanoparticles. <i>Lab on A Chip</i> , 2014, 14, 325-332.	6.0	83
33	Coupling of reaction and separation at the microscopic level: esterification processes in a H-ZSM-5 membrane reactor. <i>Chemical Engineering Science</i> , 2002, 57, 1557-1562.	3.8	81
34	Preparation of zeolite NaA membranes on the inner side of tubular supports by means of a controlled seeding technique. <i>Catalysis Today</i> , 2005, 104, 281-287.	4.4	77
35	Synthesis and stealthing study of bare and PEGylated silica micro- and nanoparticles as potential drug-delivery vectors. <i>Chemical Engineering Journal</i> , 2008, 137, 45-53.	12.7	76
36	Autoimmune/autoinflammatory syndrome induced by adjuvants (ASIA syndrome) in commercial sheep. <i>Immunologic Research</i> , 2013, 56, 317-324.	2.9	75

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37	Continuous microfluidic synthesis and functionalization of gold nanorods. <i>Chemical Engineering Journal</i> , 2016, 285, 286-292.	12.7	75
38	A Dry Milling Approach for the Synthesis of Highly Active Nanoparticles Supported on Porous Materials. <i>ChemSusChem</i> , 2011, 4, 1561-1565.	6.8	74
39	Comparative study of the synthesis of silica nanoparticles in micromixer and microreactor and batch reactor systems. <i>Chemical Engineering Journal</i> , 2011, 171, 674-683.	12.7	74
40	Gas Slug Microfluidics: A Unique Tool for Ultrafast, Highly Controlled Growth of Iron Oxide Nanostructures. <i>Chemistry of Materials</i> , 2015, 27, 4254-4260.	6.7	69
41	Escaping undesired gas-phase chemistry: Microwave-driven selectivity enhancement in heterogeneous catalytic reactors. <i>Science Advances</i> , 2019, 5, eaau9000.	10.3	66
42	Preparation, characterization and pervaporation performance of mordenite membranes. <i>Journal of Membrane Science</i> , 2003, 216, 135-147.	8.2	65
43	Zeolite-modified cantilevers for the sensing of nitrotoluene vapors. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 608-616.	7.8	65
44	Dual encapsulation of hydrophobic and hydrophilic drugs in PLGA nanoparticles by a single-step method: drug delivery and cytotoxicity assays. <i>RSC Advances</i> , 2016, 6, 111060-111069.	3.6	65
45	Synthesis, characterization and separation properties of a composite mordenite/ZSM-5/chabazite hydrophilic membrane. <i>Journal of Membrane Science</i> , 1998, 149, 99-114.	8.2	64
46	Characterization of zeolite membranes by temperature programmed permeation and step desorption. <i>Journal of Membrane Science</i> , 2002, 195, 125-138.	8.2	64
47	Preparation of MFI type tubular membranes by steam-assisted crystallization. <i>Microporous and Mesoporous Materials</i> , 2001, 50, 195-200.	4.4	63
48	Magneto-plasmonic nanoparticles as theranostic platforms for magnetic resonance imaging, drug delivery and NIR hyperthermia applications. <i>Nanoscale</i> , 2014, 6, 9230.	5.6	63
49	Plasmonic MOF Thin Films with Raman Internal Standard for Fast and Ultrasensitive SERS Detection of Chemical Warfare Agents in Ambient Air. <i>ACS Sensors</i> , 2021, 6, 2241-2251.	7.8	63
50	Separation of alcohols and alcohols/O ₂ mixtures using zeolite MFI membranes. <i>Journal of Membrane Science</i> , 1998, 142, 97-109.	8.2	62
51	Synthesis and characterization of ZSM-5 coatings onto cordierite honeycomb supports. <i>Applied Catalysis A: General</i> , 2003, 253, 257-269.	4.3	62
52	Amine-functionalized mesoporous silica: A material capable of CO ₂ adsorption and fast regeneration by microwave heating. <i>AIChE Journal</i> , 2016, 62, 547-555.	3.6	62
53	Oxidative dehydrogenation of butane using membrane reactors. <i>AIChE Journal</i> , 1997, 43, 777-784.	3.6	61
54	Use of a Ceramic Membrane Reactor for the Oxidative Dehydrogenation of Ethane to Ethylene and Higher Hydrocarbons. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 4229-4234.	3.7	60

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55	Synthesis and characterisation of titanosilicate ETS-10 membranes. Microporous and Mesoporous Materials, 2004, 67, 79-86.	4.4	60
56	A semi-continuous method for the synthesis of NaA zeolite membranes on tubular supports. Journal of Membrane Science, 2004, 244, 141-150.	8.2	60
57	Gas detection with SnO ₂ sensors modified by zeolite films. Sensors and Actuators B: Chemical, 2007, 124, 99-110.	7.8	60
58	Laser-driven heterogeneous catalysis: efficient amide formation catalysed by Au/SiO ₂ systems. Green Chemistry, 2013, 15, 2043.	9.0	58
59	Numerical analysis of microwave heating cavity: Combining electromagnetic energy, heat transfer and fluid dynamics for a NaY zeolite fixed-bed. Applied Thermal Engineering, 2019, 155, 226-238.	6.0	58
60	Antibacterial action of Ag-containing MFI zeolite at low Ag loadings. Chemical Communications, 2011, 47, 680-682.	4.1	57
61	Beyond gold: rediscovering tetrakis-(hydroxymethyl)-phosphonium chloride (THPC) as an effective agent for the synthesis of ultra-small noble metal nanoparticles and Pt-containing nanoalloys. RSC Advances, 2013, 3, 10427.	3.6	56
62	Combustion of Volatile Organic Compounds over Platinum-Based Catalytic Membranes. Industrial & Engineering Chemistry Research, 1997, 36, 4557-4566.	3.7	55
63	Single phase microreactor for the continuous, high-temperature synthesis of 4 nm superparamagnetic iron oxide nanoparticles. Chemical Engineering Journal, 2018, 340, 66-72.	12.7	55
64	Development of ceramic membrane reactors with a non-uniform permeation pattern. Application to methane oxidative coupling. Chemical Engineering Science, 1994, 49, 4749-4757.	3.8	54
65	On the effect of morphological features on the properties of MFI zeolite membranes. Microporous and Mesoporous Materials, 2003, 60, 99-110.	4.4	54
66	On the use of fluidized bed catalytic reactors where reduction and oxidation zones are present simultaneously. Catalysis Today, 2005, 100, 181-189.	4.4	54
67	Oxidative Dehydrogenation of n-Butane in a Two-Zone Fluidized-Bed Reactor. Industrial & Engineering Chemistry Research, 1999, 38, 90-97.	3.7	53
68	Preparation of inner-side tubular zeolite NaA membranes in a semi-continuous synthesis system. Journal of Membrane Science, 2006, 278, 401-409.	8.2	53
69	Selective oxidations in micro-structured catalytic reactors For gas-phase reactions and specifically for fuel processing for fuel cells. Catalysis Today, 2007, 120, 2-20.	4.4	53
70	Preparation of Pt/ZSM-5 films on stainless steel microreactors. Catalysis Today, 2007, 125, 2-10.	4.4	52
71	Isolation of exosomes from whole blood by a new microfluidic device: proof of concept application in the diagnosis and monitoring of pancreatic cancer. Journal of Nanobiotechnology, 2020, 18, 150.	9.1	52
72	Oxidation of Methane to Synthesis Gas in a Fluidized Bed Reactor Using MgO-Based Catalysts. Journal of Catalysis, 1996, 158, 83-91.	6.2	50

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73	The Knudsen-diffusion catalytic membrane reactor: An efficient contactor for the combustion of volatile organic compounds. <i>Applied Catalysis B: Environmental</i> , 1996, 11, L19-L27.	20.2	48
74	Reported nanosafety practices in research laboratories worldwide. <i>Nature Nanotechnology</i> , 2010, 5, 93-96.	31.5	48
75	Facile synthesis of SiO ₂ @Au nanoshells in a three-stage microfluidic system. <i>Journal of Materials Chemistry</i> , 2012, 22, 21420.	6.7	48
76	Au@PLA nanocomposites for photothermally controlled drug delivery. <i>Journal of Materials Chemistry B</i> , 2014, 2, 409-417.	5.8	48
77	Preparation of mordenite membranes for pervaporation of water-ethanol mixtures. <i>Desalination</i> , 2002, 148, 25-29.	8.2	47
78	Preparation and Characterization of Titanosilicate Ag-ETS-10 for Propylene and Propane Adsorption. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4702-4709.	3.1	47
79	Microwave-Assisted Catalytic Combustion for the Efficient Continuous Cleaning of VOC-Containing Air Streams. <i>Environmental Science & Technology</i> , 2018, 52, 5892-5901.	10.0	47
80	Supercritical solvothermal synthesis under reducing conditions to increase stability and durability of Mo/ZSM-5 catalysts in methane dehydroaromatization. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118360.	20.2	47
81	A novel device for preparing zeolite@A membranes under a centrifugal force field. <i>Journal of Membrane Science</i> , 2003, 212, 135-146.	8.2	46
82	Antibody-Functionalized Hybrid Superparamagnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2007, 17, 1473-1479.	14.9	46
83	Removal of VOCs at trace concentration levels from humid air by Microwave Swing Adsorption, kinetics and proper sorbent selection. <i>Separation and Purification Technology</i> , 2015, 151, 193-200.	7.9	46
84	Titania-coated gold nanorods with expanded photocatalytic response. Enzyme-like glucose oxidation under near-infrared illumination. <i>Nanoscale</i> , 2017, 9, 1787-1792.	5.6	45
85	Simulation of an inert membrane reactor for the oxidative dehydrogenation of butane. <i>Chemical Engineering Science</i> , 1999, 54, 2917-2925.	3.8	44
86	Oxidative Dehydrogenation of Butane over VMgO Catalysts. <i>Journal of Catalysis</i> , 2000, 195, 113-124.	6.2	43
87	Development of QCM sensors modified by AlPO ₄ -18 films. <i>Sensors and Actuators B: Chemical</i> , 2006, 117, 143-150.	7.8	43
88	Development and application of micromachined Pd/SnO ₂ gas sensors with zeolite coatings. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 435-441.	7.8	43
89	Synthesis of Magnetic Nanocrystals by Thermal Decomposition in Glycol Media: Effect of Process Variables and Mechanistic Study. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 8348-8357.	3.7	43
90	Highly sensitive SERS quantification of organophosphorous chemical warfare agents: A major step towards the real time sensing in the gas phase. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 457-466.	7.8	43

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91	Detection of organic vapours with Si cantilevers coated with inorganic (zeolites) or organic (polymer) layers. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 822-831.	7.8	42
92	Catalytic partial oxidation of methane to synthesis gas in a ceramic membrane reactor. <i>Catalysis Letters</i> , 1995, 30, 189-199.	2.6	41
93	Preparation of zeolite films as catalytic coatings on microreactor channels. <i>Microporous and Mesoporous Materials</i> , 2008, 115, 147-155.	4.4	41
94	Selective oxidation of CO in the presence of H ₂ , CO ₂ and H ₂ O, on different zeolite-supported Pt catalysts. <i>Applied Catalysis A: General</i> , 2009, 366, 242-251.	4.3	41
95	Facile preparation of transparent and conductive polymer films based on silver nanowire/polycarbonate nanocomposites. <i>Nanotechnology</i> , 2013, 24, 275603.	2.6	41
96	Gold-coated halloysite nanotubes as tunable plasmonic platforms. <i>New Journal of Chemistry</i> , 2014, 38, 2037.	2.8	41
97	Preparation of Drug-Loaded PLGA-PEG Nanoparticles by Membrane-Assisted Nanoprecipitation. <i>Pharmaceutical Research</i> , 2017, 34, 1296-1308.	3.5	41
98	Development and application of perovskite-based catalytic membrane reactors. <i>Catalysis Letters</i> , 1998, 54, 69-78.	2.6	40
99	NIR-enhanced drug release from porous Au/SiO ₂ nanoparticles. <i>Chemical Communications</i> , 2010, 46, 7513.	4.1	40
100	Monoamine-grafted MCM-48: An efficient material for CO ₂ removal at low partial pressures. <i>Chemical Engineering Journal</i> , 2011, 175, 291-297.	12.7	40
101	Preparation of ITQ-29 (Al-free zeolite A) membranes. <i>Microporous and Mesoporous Materials</i> , 2008, 110, 303-309.	4.4	39
102	Methane oxidative coupling in fixed bed catalytic reactors with a distributed oxygen feed. A simulation study. <i>Catalysis Today</i> , 1992, 13, 353-360.	4.4	38
103	Plasmon-enhanced photocatalytic water purification. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15111.	2.8	38
104	Oxidative dehydrogenation of propane on V/Al ₂ O ₃ catalytic membranes. Effect of the type of membrane and reactant feed configuration. <i>Chemical Engineering Science</i> , 1999, 54, 1265-1272.	3.8	37
105	Pore ordering and surface properties of FDU-12 and SBA-15 mesoporous materials and their relation to drug loading and release in aqueous environments. <i>Materials Research Bulletin</i> , 2014, 59, 311-322.	5.2	37
106	Spontaneous formation of Au-Pt alloyed nanoparticles using pure nano-counterparts as starters: a ligand and size dependent process. <i>Nanoscale</i> , 2015, 7, 10152-10161.	5.6	37
107	Synthesis of Maleic Anhydride in an Inert Membrane Reactor. Effect of Reactor Configuration. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 620-625.	3.7	36
108	Microwave-assisted mild-temperature preparation of neodymium-doped titania for the improved photodegradation of water contaminants. <i>Applied Catalysis A: General</i> , 2012, 441-442, 47-53.	4.3	36

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109	Polyoxometalates as alternative Mo precursors for methane dehydroaromatization on Mo/ZSM-5 and Mo/MCM-22 catalysts. <i>Catalysis Science and Technology</i> , 2019, 9, 5927-5942.	4.1	36
110	The use of post-synthetic treatments to improve the pervaporation performance of mordenite membranes. <i>Journal of Membrane Science</i> , 2006, 270, 32-41.	8.2	35
111	VOCs abatement using thick eggshell Pt/SBA-15 pellets with hierarchical porosity. <i>Catalysis Today</i> , 2014, 227, 179-186.	4.4	35
112	Electrospun Au/CeO ₂ nanofibers: A highly accessible low-pressure drop catalyst for preferential CO oxidation. <i>Journal of Catalysis</i> , 2015, 329, 479-489.	6.2	35
113	The effect of PEGylated hollow gold nanoparticles on stem cell migration: potential application in tissue regeneration. <i>Nanoscale</i> , 2017, 9, 9848-9858.	5.6	35
114	Separation of propylene/propane mixtures by titanosilicate ETS-10 membranes prepared in one-step seeded hydrothermal synthesis. <i>Journal of Membrane Science</i> , 2008, 311, 326-335.	8.2	34
115	Synthesis and magnetic behavior of ultra-small bimetallic FeCo/graphite nanoparticles. <i>Nanotechnology</i> , 2013, 24, 505702.	2.6	34
116	MoO ₃ /MgO as a catalyst in the oxidative dehydrogenation of n-butane in a two-zone fluidized bed reactor. <i>Catalysis Today</i> , 2000, 61, 101-107.	4.4	33
117	Synthesis and characterization of ultra-small magnetic FeNi/G and NiCo/G nanoparticles. <i>Nanotechnology</i> , 2012, 23, 085601.	2.6	33
118	Porous orthopedic steel implant as an antibiotic eluting device: Prevention of post-surgical infection on an ovine model. <i>International Journal of Pharmaceutics</i> , 2013, 452, 166-172.	5.2	33
119	Gas phase detection of chemical warfare agents CWAs with portable Raman. <i>Journal of Hazardous Materials</i> , 2020, 384, 121279.	12.4	33
120	Bioorthogonal Uncaging of Cytotoxic Paclitaxel through Pd Nanosheet@Hydrogel Frameworks. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 9650-9659.	6.4	33
121	Deactivation by Coke of a Cr ₂ O ₃ /Al ₂ O ₃ Catalyst During Butene Dehydrogenation. <i>Journal of Catalysis</i> , 1993, 142, 59-69.	6.2	32
122	Preparation of highly accessible mordenite coatings on ceramic monoliths at loadings exceeding 50% by weight. <i>Chemical Communications</i> , 2004, , 528-529.	4.1	32
123	Study on the reproducibility of mordenite tubular membranes used in the dehydration of ethanol. <i>Journal of Membrane Science</i> , 2007, 299, 166-173.	8.2	32
124	Surface functionalization for tailoring the aggregation and magnetic behaviour of silica-coated iron oxide nanostructures. <i>Nanotechnology</i> , 2012, 23, 155603.	2.6	32
125	Encapsulation of titanium dioxide nanoparticles in PLA microspheres using supercritical emulsion extraction to produce bactericidal nanocomposites. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	31
126	Overcoming Stability Problems in Microwave-Assisted Heterogeneous Catalytic Processes Affected by Catalyst Coking. <i>Catalysts</i> , 2019, 9, 867.	3.5	31

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127	Gold-Based Nanoparticles on Amino-Functionalized Mesoporous Silica Supports as Nanozymes for Glucose Oxidation. <i>Catalysts</i> , 2020, 10, 333.	3.5	31
128	Synthesis, Characterization, and Separation Properties of Sn ^{IV} and Ti ^{IV} Silicate Umbite Membranes. <i>Chemistry of Materials</i> , 2006, 18, 2472-2479.	6.7	30
129	Enhancing of plasmonic photothermal therapy through heat-inducible transgene activity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 646-656.	3.3	30
130	Gold-Triggered Uncaging Chemistry in Living Systems. <i>Angewandte Chemie</i> , 2017, 129, 12722-12726.	2.0	30
131	Methane combustion over unsupported iron oxide catalysts. <i>Catalysis Today</i> , 2001, 64, 43-50.	4.4	29
132	Use of a polyol liquid collection medium to obtain ultrasmall magnetic nanoparticles by laser pyrolysis. <i>Nanotechnology</i> , 2012, 23, 425605.	2.6	29
133	A Nanoarchitecture Based on Silver and Copper Oxide with an Exceptional Response in the Chlorine-Promoted Epoxidation of Ethylene. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11158-11161.	13.8	29
134	Separation of traces of CO from air using MFI-type zeolite membranes. <i>Journal of Membrane Science</i> , 2002, 201, 229-232.	8.2	28
135	Synthesis and characterization of MCM-48 tubular membranes. <i>Journal of Membrane Science</i> , 2006, 280, 867-875.	8.2	28
136	Zeolite-coated interdigital capacitors for humidity sensing. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 450-459.	7.8	28
137	Mesoporous silica loaded with peracetic acid and silver nanoparticles as a dual-effect, highly efficient bactericidal agent. <i>Microporous and Mesoporous Materials</i> , 2012, 161, 84-90.	4.4	28
138	Evaluation of gold-decorated halloysite nanotubes as plasmonic photocatalysts. <i>Catalysis Communications</i> , 2014, 56, 115-118.	3.3	27
139	Use of Zeolite Membrane Reactors for the Combustion of VOCs Present in Air at Low Concentrations. <i>Chemical Engineering Research and Design</i> , 2005, 83, 295-301.	5.6	26
140	Preparation and characterization of two-layered mordenite-ZSM-5 bi-functional membranes. <i>Microporous and Mesoporous Materials</i> , 2006, 93, 318-324.	4.4	26
141	Controlled Covalent Functionalization of 2H-MoS_2 with Molecular or Polymeric Adlayers. <i>Chemistry - A European Journal</i> , 2020, 26, 6629-6634.	3.3	26
142	Catalytic oxidation of butane to maleic anhydride enhanced yields in the presence of CO ₂ in the reactor feed. <i>Applied Catalysis A: General</i> , 2001, 210, 271-274.	4.3	25
143	Preparation and characterization of Pd-zeolite composite membranes for hydrogen separation. <i>Desalination</i> , 2002, 147, 425-431.	8.2	25
144	Laser-driven direct synthesis of carbon nanodots and application as sensitizers for visible-light photocatalysis. <i>Carbon</i> , 2020, 156, 453-462.	10.3	25

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145	Modelling of a two-zone fluidised bed reactor for the oxidative dehydrogenation of n-butane. Powder Technology, 2001, 120, 88-96.	4.2	24
146	Mechanically reinforced biodegradable nanocomposites. A facile synthesis based on PEGylated silica nanoparticles. Polymer, 2010, 51, 6132-6139.	3.8	24
147	Combustion of Volatile Organic Compounds at Trace Concentration Levels in Zeolite-Coated Microreactors. Industrial & Engineering Chemistry Research, 2010, 49, 6941-6947.	3.7	24
148	110th Anniversary: Nucleation of Ag Nanoparticles in Helical Microfluidic Reactor. Comparison between Microwave and Conventional Heating. Industrial & Engineering Chemistry Research, 2019, 58, 12702-12711.	3.7	24
149	Regeneration strategies for coked fixed bed reactors. Chemical Engineering Science, 1991, 46, 11-21.	3.8	23
150	Thermal stability of γ -Al ₂ O ₃ / α -Al ₂ O ₃ mesoporous membranes. Journal of Membrane Science, 1998, 147, 173-185.	8.2	23
151	Synthesis of a mordenite/ZSM-5/chabazite hydrophilic membrane on a tubular support. Application to the separation of a water-propanol mixture. Chemical Communications, 1998, , 125-126.	4.1	23
152	Influence of the Reaction Atmosphere on the Characteristics and Performance of VPO Catalysts. Journal of Catalysis, 2000, 196, 1-7.	6.2	23
153	Temporal and spatial patterning of transgene expression by near-infrared irradiation. Biomaterials, 2014, 35, 8134-8143.	11.4	23
154	Glutathione-Triggered catalytic response of Copper-Iron mixed oxide Nanoparticles. Leveraging tumor microenvironment conditions for chemodynamic therapy. Journal of Colloid and Interface Science, 2022, 617, 704-717.	9.4	23
155	Fabrication of devices featuring covalently linked MoS ₂ -graphene heterostructures. Nature Chemistry, 2022, 14, 695-700.	13.6	23
156	Simulation of an inert membrane reactor for the synthesis of maleic anhydride. AIChE Journal, 2000, 46, 2489-2498.	3.6	22
157	Simulation of the decomposition of di-cumyl peroxide in an ARSST unit. Thermochimica Acta, 2000, 362, 49-58.	2.7	22
158	AFM characterization of the growth of MFI-type zeolite films on alumina substrates. Microporous and Mesoporous Materials, 2004, 71, 33-37.	4.4	22
159	Preparation of Silicalite-1 Micromembranes on Laser-Perforated Stainless Steel Sheets. Chemistry of Materials, 2004, 16, 4847-4850.	6.7	22
160	Hollow porous implants filled with mesoporous silica particles as a two-stage antibiotic-eluting device. International Journal of Pharmaceutics, 2011, 409, 1-8.	5.2	22
161	Continuous Microwave-Assisted Synthesis of Silver Nanoclusters Confined in Mesoporous SBA-15: Application in Alkyne Cyclizations. Chemistry of Materials, 2020, 32, 2874-2883.	6.7	22
162	A new titanosilicate membrane for the separation of H ₂ . Chemical Communications, 2005, , 3036.	4.1	21

#	ARTICLE	IF	CITATIONS
163	Microreactors with Pt/zeolite catalytic films for the selective oxidation of CO in simulated reformer streams. <i>Catalysis Today</i> , 2009, 147, S10-S16.	4.4	21
164	Drug delivery from internally implanted biomedical devices used in traumatology and in orthopedic surgery. <i>Expert Opinion on Drug Delivery</i> , 2010, 7, 589-603.	5.0	21
165	Polymer functionalized gold nanoparticles as nonviral gene delivery reagents. <i>Journal of Gene Medicine</i> , 2017, 19, e2964.	2.8	21
166	Kinetics of catalyst regeneration by coke combustion. I. Increased reaction rate due to the presence of chromium. <i>Reaction Kinetics and Catalysis Letters</i> , 1991, 44, 445-450.	0.6	20
167	Catalyst sintering in fixed-bed reactors: Deactivation rate and thermal history. <i>AIChE Journal</i> , 1992, 38, 237-243.	3.6	20
168	Catalytic dehydrogenation of n-butane in a fluidized bed reactor with separate coking and regeneration zones. <i>Studies in Surface Science and Catalysis</i> , 2000, , 2717-2722.	1.5	20
169	In-situ preparation of ultra-small Pt nanoparticles within rod-shaped mesoporous silica particles: 3-D tomography and catalytic oxidation of n-hexane. <i>Catalysis Communications</i> , 2017, 100, 93-97.	3.3	20
170	Effect of Nitinol surface treatments on its physicochemical properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 91B, 337-347.	3.4	19
171	Preparation of stable MCM-48 tubular membranes. <i>Journal of Membrane Science</i> , 2009, 326, 137-144.	8.2	19
172	Silver nanowires/polycarbonate composites for conductive films. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 40, 012001.	0.6	19
173	Laser-Assisted Production of Carbon-Encapsulated Pt-Co Alloy Nanoparticles for Preferential Oxidation of Carbon Monoxide. <i>Frontiers in Chemistry</i> , 2018, 6, 487.	3.6	19
174	Differences in levan nanoparticles depending on their synthesis route: Microbial vs cell-free systems. <i>International Journal of Biological Macromolecules</i> , 2019, 137, 62-68.	7.5	19
175	From bench scale to pilot plant: A 150x scaled-up configuration of a microwave-driven structured reactor for methane dehydroaromatization. <i>Catalysis Today</i> , 2022, 383, 21-30.	4.4	19
176	Regeneration of Coked Catalysts: The Effect of Aging upon the Characteristics of the Coke Deposits. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 2563-2570.	3.7	18
177	On the role of the colloidal stability of mesoporous silica nanoparticles as gene delivery vectors. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4097-4108.	1.9	18
178	Ex vivo assessment of polyol coated-iron oxide nanoparticles for MRI diagnosis applications: toxicological and MRI contrast enhancement effects. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	18
179	Separation of Pd complexes from a homogeneous solution using zeolite membranes. <i>Chemical Communications</i> , 2001, , 2608-2609.	4.1	17
180	Spheres of Microporous Titanosilicate Umbite with Hierarchical Pore Systems. <i>Advanced Functional Materials</i> , 2008, 18, 1314-1320.	14.9	17

#	ARTICLE	IF	CITATIONS
181	Study on template removal from silicalite-1 giant crystals. <i>Materials Research Bulletin</i> , 2009, 44, 1280-1287.	5.2	17
182	Strong bactericidal synergy between peracetic acid and silver-exchanged zeolites. <i>Microporous and Mesoporous Materials</i> , 2012, 156, 171-175.	4.4	17
183	Nanoporous silicalite-only cantilevers as micromechanical sensors: Fabrication, resonance response and VOCs sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2012, 168, 74-82.	7.8	17
184	Stability and biocompatibility of photothermal gold nanorods after lyophilization and sterilization. <i>Materials Research Bulletin</i> , 2013, 48, 4051-4057.	5.2	17
185	The chlorine release at Flix (Spain) on January 21st 1996: a case study. <i>Journal of Loss Prevention in the Process Industries</i> , 1998, 11, 153-160.	3.3	16
186	Development of microstructured zeolite films as highly accessible catalytic coatings for microreactors. <i>Journal of Catalysis</i> , 2007, 250, 190-194.	6.2	16
187	Heating of Zeolites under Microwave Irradiation: A Density Functional Theory Approach to the Ion Movements Responsible of the Dielectric Loss in Na, K, and Ca A-Zeolites. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15659-15666.	3.1	16
188	Continuous production of iron-based nanocrystals by laser pyrolysis. Effect of operating variables on size, composition and magnetic response. <i>Nanotechnology</i> , 2013, 24, 325603.	2.6	16
189	Continuous-Mode Laser Ablation at the Solid-Liquid Interface of Pelletized Low-Cost Materials for the Production of Luminescent Silicon Carbide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2158-2165.	3.1	16
190	Selective delivery of photothermal nanoparticles to tumors using mesenchymal stem cells as Trojan horses. <i>RSC Advances</i> , 2016, 6, 58723-58732.	3.6	16
191	Nondestructive production of exosomes loaded with ultrathin palladium nanosheets for targeted bio-orthogonal catalysis. <i>Nature Protocols</i> , 2021, 16, 131-163.	12.0	16
192	A kinetic model for activation-deactivation processes in solid catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1991, 30, 111-122.	3.7	15
193	Simulation of a catalytic membrane reactor for the oxidative dehydrogenation of butane. <i>Chemical Engineering Science</i> , 2002, 57, 2531-2544.	3.8	15
194	Preparation of Silicalite Membranes on Stainless Steel Grid Supports. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 7627-7632.	3.7	15
195	Unintended emission of nanoparticle aerosols during common laboratory handling operations. <i>Journal of Hazardous Materials</i> , 2014, 279, 75-84.	12.4	15
196	High surface coverage of a self-assembled monolayer by <i>in situ</i> synthesis of palladium nanodeposits. <i>Nanoscale</i> , 2017, 9, 13281-13290.	5.6	15
197	Upconverting Carbon Nanodots from Ethylenediaminetetraacetic Acid (EDTA) as Near-Infrared Activated Phototheranostic Agents. <i>Chemistry - A European Journal</i> , 2019, 25, 5539-5546.	3.3	15
198	Simulation and optimization of a fixed bed reactor operating in coking-regeneration cycles. <i>Industrial & Engineering Chemistry Research</i> , 1992, 31, 2699-2707.	3.7	14

#	ARTICLE	IF	CITATIONS
199	Fluidization of agglomerating particles: influence of the gas temperature and composition on the fluidization of a Li/MgO catalyst. <i>Powder Technology</i> , 1997, 92, 47-52.	4.2	14
200	The "PROCESO"™ index: a new methodology for the evaluation of operational safety in the chemical industry. <i>Reliability Engineering and System Safety</i> , 2006, 91, 349-361.	8.9	14
201	Growth of Silicalite-1 by a Method Involving Separation of Reactants. <i>Chemistry of Materials</i> , 2007, 19, 594-599.	6.7	14
202	Lipogels responsive to near-infrared light for the triggered release of therapeutic agents. <i>Acta Biomaterialia</i> , 2017, 61, 54-65.	8.3	14
203	Dry powder formulation for pulmonary infections: Ciprofloxacin loaded in chitosan sub-micron particles generated by electrospray. <i>Carbohydrate Polymers</i> , 2021, 273, 118543.	10.2	14
204	Characterization of Zeolite Membranes by Measurement of Permeation Fluxes in the Presence of Adsorbable Species. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 5071-5078.	3.7	13
205	Cu-BTC Functional Microdevices as Smart Tools for Capture and Preconcentration of Nerve Agents. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42622-42633.	8.0	13
206	Characterization of porous ceramic membranes for their use in catalytic reactors for methane oxidative coupling. <i>Catalysis Today</i> , 1995, 25, 263-269.	4.4	12
207	Oxidative Coupling of Methane in a Vibrofluidized Bed at Low Fluidizing Velocities. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 1581-1587.	3.7	12
208	Combustion of volatile organic compounds over mixed-regime catalytic membranes. <i>Reaction Kinetics and Catalysis Letters</i> , 1999, 67, 13-19.	0.6	12
209	Development of etching processes for the micropatterning of silicalite films. <i>Microporous and Mesoporous Materials</i> , 2008, 114, 110-120.	4.4	12
210	Identification of TiO ₂ nanoparticles using La and Ce as labels: application to the evaluation of surface contamination during the handling of nanosized matter. <i>Environmental Science: Nano</i> , 2014, 1, 496-503.	4.3	12
211	Pumping Metallic Nanoparticles with Spatial Precision within Magnetic Mesoporous Platforms: 3D Characterization and Catalytic Application. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41529-41536.	8.0	12
212	Luminescent mesoporous nanorods as photocatalytic enzyme-like peroxidase surrogates. <i>Chemical Science</i> , 2018, 9, 7766-7778.	7.4	12
213	Simulation of a membrane reactor for oxidative dehydrogenation of propane, incorporating radial concentration and temperature profiles. <i>Chemical Engineering Science</i> , 2001, 56, 57-67.	3.8	11
214	Improved Ti-silicate umbite membranes for the separation of H ₂ . <i>Journal of Membrane Science</i> , 2008, 323, 207-212.	8.2	11
215	Pro-angiogenic near infrared-responsive hydrogels for deliberate transgene expression. <i>Acta Biomaterialia</i> , 2018, 78, 123-136.	8.3	11
216	Regeneration of Fixed-Bed Catalytic Reactors Deactivated by Coke: Influence of Operating Conditions and of Different Pretreatments of the Coke Deposits. <i>Industrial & Engineering Chemistry Research</i> , 1996, 35, 1813-1823.	3.7	10

#	ARTICLE	IF	CITATIONS
217	Magnetically-driven selective synthesis of Au clusters on Fe ₃ O ₄ nanoparticles. <i>Chemical Communications</i> , 2013, 49, 716-718.	4.1	10
218	Intense generation of respirable metal nanoparticles from a low-power soldering unit. <i>Journal of Hazardous Materials</i> , 2013, 256-257, 84-89.	12.4	10
219	Facile production of stable silicon nanoparticles: laser chemistry coupled to in situ stabilization via room temperature hydrosilylation. <i>Nanoscale</i> , 2015, 7, 8566-8573.	5.6	10
220	Formation of Micro/Macroporous Hierarchical Spheres of Titanosilicate Umbite. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2448-2453.	2.0	9
221	Oxidative dehydrogenation of propane to propene, 1: Kinetic study on V/MgO. <i>Canadian Journal of Chemical Engineering</i> , 2001, 79, 891-901.	1.7	9
222	Oxidative dehydrogenation of propane to propene, 2: Simulation of a commercial inert membrane reactor immersed in a fluidized bed. <i>Canadian Journal of Chemical Engineering</i> , 2001, 79, 902-912.	1.7	9
223	Fluidized Bed Generation of Stable Silica Nanoparticle Aerosols. <i>Aerosol Science and Technology</i> , 2013, 47, 867-874.	3.1	9
224	SPIONs™ Enhancer Effect on Cell Transfection: An Unexpected Advantage for an Improved Gene Delivery System. <i>ACS Omega</i> , 2019, 4, 2728-2740.	3.5	9
225	Unveiling the interplay between homogeneous and heterogeneous catalytic mechanisms in copper-iron nanoparticles working under chemically relevant tumour conditions. <i>Chemical Science</i> , 2022, 13, 8307-8320.	7.4	9
226	On the favourable effect of CO ₂ addition in the oxidation of butane to maleic anhydride using membrane reactors. <i>Applied Catalysis A: General</i> , 2002, 231, 109-116.	4.3	8
227	Al-promoted increase of surface area and adsorption capacity in ordered mesoporous silica materials with a cubic structure. <i>Chemical Communications</i> , 2011, 47, 12337.	4.1	8
228	Fluorescently labelled SiO ₂ nanoparticles as tracers in natural waters: dependence of detection limits on environmental conditions. <i>Environmental Science: Nano</i> , 2016, 3, 631-637.	4.3	8
229	Zeolite based microconcentrators for volatile organic compounds sensing at trace-level: fabrication and performance. <i>Journal of Micromechanics and Microengineering</i> , 2016, 26, 084010.	2.6	8
230	Antibiotic-eluting orthopedic device to prevent early implant associated infections: Efficacy, biocompatibility and biodistribution studies in an ovine model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 1976-1986.	3.4	8
231	A comparative study of risk perception in small and large communities where chemical industries are present. <i>Journal of Loss Prevention in the Process Industries</i> , 2002, 15, 525-530.	3.3	7
232	Selective separation of homogeneous catalysts using silicalite membranes. <i>Inorganica Chimica Acta</i> , 2004, 357, 4577-4581.	2.4	7
233	Mechanochemical characterisation of silica-based coatings on Nitinol substrates. <i>Microporous and Mesoporous Materials</i> , 2007, 98, 292-302.	4.4	7
234	In-situ preparation of a highly accessible Pt/CNF catalytic layer on metallic microchannel reactors. Application to the SELOX reaction. <i>Applied Catalysis A: General</i> , 2015, 505, 193-199.	4.3	7

#	ARTICLE	IF	CITATIONS
235	Modulation of bactericidal action in polymer nanocomposites: light-tuned Ag ⁺ release from electrospun PMMA fibers. RSC Advances, 2016, 6, 78036-78042.	3.6	7
236	Versatile hollow fluorescent metal-silica nanohybrids through a modified microemulsion synthesis route. Journal of Colloid and Interface Science, 2018, 513, 497-504.	9.4	7
237	Transfer of photothermal nanoparticles using stem cell derived small extracellular vesicles for in vivo treatment of primary and multinodular tumours. Journal of Extracellular Vesicles, 2022, 11, e12193.	12.2	7
238	Methane oxidative coupling over different alkalidoped catalysts: A comparison of ceramic membrane reactors and conventional fixed bed reactors. Reaction Kinetics and Catalysis Letters, 1996, 59, 277-284.	0.6	6
239	The influence of the permeation regime on the activity of catalytic membranes for methane combustion. Journal of Catalysis, 2003, 218, 457-459.	6.2	6
240	Preparation and characterization of Co mordenite coatings onto cordierite monoliths as structured catalysts. Catalysis Today, 2008, 133-135, 42-48.	4.4	6
241	Preparation and application of silicalite-1 micromembranes on laser-perforated stainless steel sheets. Journal of Membrane Science, 2008, 316, 28-34.	8.2	6
242	Explosives detection using nanoporous coatings. Proceedings of SPIE, 2011, , .	0.8	6
243	Generation of TiO ₂ Aerosols from Liquid Suspensions: Influence of Colloid Characteristics. Aerosol Science and Technology, 2013, 47, 1383-1392.	3.1	6
244	Ultrasmall Platinum Nanoparticles on Fe ₃ O ₄ : A Low-Temperature Catalyst for the Preferential Oxidation Reaction. ChemCatChem, 2016, 8, 1479-1484.	3.7	6
245	Explosives Detection by Array of Si μ -Cantilevers Coated With Titanosilicate-Type Nanoporous Materials. IEEE Sensors Journal, 2016, 16, 3435-3443.	4.7	6
246	Covalent Cross-Linking of 2H-MoS ₂ Nanosheets. Chemistry - A European Journal, 2021, 27, 2993-2996.	3.3	6
247	LED-driven controlled deposition of Ni onto TiO ₂ for visible-light expanded conversion of carbon dioxide into C ₁ -C ₂ alkanes. Nanoscale Advances, 2021, 3, 3788-3798.	4.6	6
248	Ultra-Fast Biomass Pyrolysis in a High-Temperature (2200 Å C), Fluid-Wall Reactor. Journal of Solar Energy Engineering, Transactions of the ASME, 1988, 110, 10-13.	1.8	5
249	Simultaneous Activation and Deactivation Phenomena in Isopropyl Alcohol Dehydrogenation on A Cu/SiO ₂ Catalyst. Studies in Surface Science and Catalysis, 1991, , 391-398.	1.5	5
250	Early detection of runaway reactions in systems with gas evolution using on-line mass spectrometry. Chemical Engineering Science, 1997, 52, 3107-3115.	3.8	5
251	Facilitated transport of O ₂ through alumina-zeolite composite membranes containing a solution with a reducible metal complex. Journal of Membrane Science, 2002, 203, 209-213.	8.2	5
252	Preparation of titanosilicate ETS-10 and vanadosilicate AM-6 membranes. Studies in Surface Science and Catalysis, 2005, , 423-430.	1.5	5

#	ARTICLE	IF	CITATIONS
253	Optical vibrometer for mechanical properties characterization of silicalite-only cantilever based sensors. <i>Microelectronic Engineering</i> , 2010, 87, 1207-1209.	2.4	5
254	A versatile generator of nanoparticle aerosols. A novel tool in environmental and occupational exposure assessment. <i>Science of the Total Environment</i> , 2018, 625, 978-986.	8.0	5
255	High-Performance Thin-Layer Chromatography-Densitometry-Tandem ESI-MS to Evaluate Phospholipid Content in Exosomes of Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1150.	4.1	5
256	Catalytic Reactor Engineering for the Oxidative Coupling of Methane. Use of a Fluidized Bed and of a Ceramic Membrane Reactor. <i>Studies in Surface Science and Catalysis</i> , 1994, , 387-394.	1.5	4
257	Reactor Engineering Studies of Methane Oxidative Coupling on a Li/Mgo Catalyst.. <i>Studies in Surface Science and Catalysis</i> , 1994, 81, 171-176.	1.5	4
258	Coupling of Consecutive Reactions in a Two-Layer, Flow-Through Catalytic Membrane. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 1058-1064.	3.7	4
259	Explosives detection by using 8-microcantilever chips with self-heating elements modified with exchanged BEA type zeolites. , 2013, , .		4
260	Development of a self-cleaning dispersion and exposure chamber: Application to the monitoring of simulated accidents involving the generation of airborne nanoparticles. <i>Journal of Hazardous Materials</i> , 2014, 280, 226-234.	12.4	4
261	Reinforced SIL-1 micromembranes integrated on chip: Application to CO2 separation. <i>Journal of Membrane Science</i> , 2014, 460, 34-45.	8.2	4
262	A Nanoarchitecture Based on Silver and Copper Oxide with an Exceptional Response in the Chlorine-Promoted Epoxidation of Ethylene. <i>Angewandte Chemie</i> , 2016, 128, 11324-11327.	2.0	4
263	Modeling the size distribution in a fluidized bed of nanopowder. <i>Environmental Science: Nano</i> , 2017, 4, 670-678.	4.3	4
264	Fast and simple assessment of surface contamination in operations involving nanomaterials. <i>Journal of Hazardous Materials</i> , 2019, 363, 358-365.	12.4	4
265	Preparation of Cu cluster catalysts by simultaneous cooling-microwave heating: application in radical cascade annulation. <i>Nanoscale Advances</i> , 2021, 3, 1087-1095.	4.6	4
266	Influence of the catalyst pretreatment on the relative rates of the main and coking reactions during acetylene hydrogenation on a NiO/NiAl ₂ O ₄ catalyst. <i>Studies in Surface Science and Catalysis</i> , 1994, 88, 555-560.	1.5	3
267	Regeneration of Coked Catalysts in a Polytropic Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 5373-5379.	3.7	3
268	Exploring chemical composition effects on umbite structure and gas separation properties using atomistic simulations. <i>Desalination</i> , 2006, 199, 368-370.	8.2	3
269	Evaluation of optical and dielectrical properties of the zeolites. <i>Desalination</i> , 2006, 200, 601-603.	8.2	3
270	Gas Sensing with Silicon-Based Nanoporous Solids. , 2009, , 387-411.		3

#	ARTICLE	IF	CITATIONS
271	Portable lock-in amplifier for microcantilever based sensor array. Application to explosives detection using Co-BEA type zeolites as sensing materials. , 2014, , .		3
272	Easy Preparation of Tanninâ€Based Ag Catalysts for Ethylene Epoxidation. ChemistrySelect, 2017, 2, 8509-8516.	1.5	3
273	SERS Detection of Neurotoxic Agents in Gas Phase Using Microfluidic Chips Containing Gold-Mesoporous Silica as Plasmonic-Sorbent. , 2019, , .		3
274	Tuning Alginate Microparticle Size via Atomization of Non-Newtonian Fluids. Materials, 2021, 14, 7601.	2.9	3
275	Effect of thermal aging upon the regeneration kinetics of a coked Cr ₂ O ₃ –Al ₂ O ₃ catalyst. Thermochimica Acta, 1996, 274, 249-259.	2.7	2
276	Deactivation of bulk iron oxide catalysts during methane combustion. Studies in Surface Science and Catalysis, 2001, 139, 487-494.	1.5	2
277	4th International Zeolite Membrane Meeting. Microporous and Mesoporous Materials, 2008, 115, 1-2.	4.4	2
278	Bioorthogonal Catalysis Goes Chiral. Chem, 2020, 6, 1853-1855.	11.7	2
279	Explosives Detection by array of Si μ-cantilevers coated with titanosilicate type nanoporous materials. , 2014, , .		1
280	Kinetics of catalyst regeneration by coke combustion. II. Influence of temperature rise in the catalyst particles. Reaction Kinetics and Catalysis Letters, 1991, 44, 279-285.	0.6	0
281	Non-Uniform Sintering in Oxyregeneration of Fixed Bed Catalytic Reactors. Studies in Surface Science and Catalysis, 1991, , 629-636.	1.5	0
282	Selective detection of ammonia and benzene via zeolite films deposited on SnO ₂ /Pt-SnO ₂ /thick film gas sensors. , 0, , .		0
283	Innentitelbild: A Nanoarchitecture Based on Silver and Copper Oxide with an Exceptional Response in the Chlorine-Promoted Epoxidation of Ethylene (Angew. Chem. 37/2016). Angewandte Chemie, 2016, 128, 11082-11082.	2.0	0
284	InnenrÃ¼cktitelbild: Goldâ€Triggered Uncaging Chemistry in Living Systems (Angew. Chem. 41/2017). Angewandte Chemie, 2017, 129, 12965-12965.	2.0	0
285	HRTEM characterization of core-shell Fe@C and Fe@SiO ₂ magnetic nanoparticles prepared by the arc-discharge plasma method. , 2008, , 597-598.		0