Mercedes Alvaro

List of Publications by Year
in descending order

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230 papers	14,400 citations	18465 62 h-index	23514 111 g-index
250 all docs	250 docs citations	250 times ranked	15747 citing authors

#	Article	IF	Citations
1	Semiconductor Behavior of a Metal-Organic Framework (MOF). Chemistry - A European Journal, 2007, 13, 5106-5112.	1.7	809
2	Carbocatalysis by Graphene-Based Materials. Chemical Reviews, 2014, 114, 6179-6212.	23.0	595
3	Heterogeneous Fenton catalysts based on clays, silicas and zeolites. Applied Catalysis B: Environmental, 2010, 99, 1-26.	10.8	570
4	Commercial metalâ€“organic frameworks as heterogeneous catalysts. Chemical Communications, 2012, 48, 11275.	2.2	378
5	Photocatalytic CO₂ Reduction using Nonâ€Titanium Metal Oxides and Sulfides. ChemSusChem, 2013, 6, 562-577.	3.6	282
6	Metalâ€“organic frameworks as heterogeneous catalysts for oxidation reactions. Catalysis Science and Technology, 2011, 1, 856.	2.1	281
7	Active sites on graphene-based materials as metal-free catalysts. Chemical Society Reviews, 2017, 46, 4501-4529.	18.7	273
8	Metal nanoparticles supported on two-dimensional graphenes as heterogeneous catalysts. Coordination Chemistry Reviews, 2016, 312, 99-148.	9.5	270
9	Metal Nanoparticles as Heterogeneous Fenton Catalysts. ChemSusChem, 2012, 5, 46-64.	3.6	254
10	Enhancement of the Catalytic Activity of Supported Gold Nanoparticles for the Fenton Reaction by Light. Journal of the American Chemical Society, 2011, 133, 2218-2226.	6.6	235
11	Aerobic Oxidation of Benzylic Alcohols Catalyzed by Metalâ€'Organic Frameworks Assisted by TEMPO. ACS Catalysis, 2011, 1, 48-53.	5.5	229
12	Comparison of Porous Iron Trimesates Basolite F300 and MIL-100(Fe) As Heterogeneous Catalysts for Lewis Acid and Oxidation Reactions: Roles of Structural Defects and Stability. ACS Catalysis, 2012, 2, 2060-2065.	5.5	213
13	Catalytic activity of unsupported gold nanoparticles. Catalysis Science and Technology, 2013, 3, 58-69.	2.1	212
14	Iron(<scp>iii</scp>) metalâ€“organic frameworks as solid Lewis acids for the isomerization of Î±-pinene oxide. Catalysis Science and Technology, 2012, 2, 324-330.	2.1	197
15	Metalâ€“Organic Frameworks as Efficient Heterogeneous Catalysts for the Regioselective Ring Opening of Epoxides. Chemistry - A European Journal, 2010, 16, 8530-8536.	1.7	196
16	Synthesis, Photochemistry, and Electrochemistry of Single-Wall Carbon Nanotubes with Pendent Pyridyl Groups and of Their Metal Complexes with Zinc Porphyrin. Comparison with Pyridyl-Bearing Fullerenes. Journal of the American Chemical Society, 2006, 128, 6626-6635.	6.6	194
17	Graphene oxide as an acid catalyst for the room temperature ring opening of epoxides. Chemical Communications, 2012, 48, 5443.	2.2	180
18	Heterogeneous Fenton Catalysts Based on Activated Carbon and Related Materials. ChemSusChem, 2011, 4, 1712-1730.	3.6	177

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19	Gold on Diamond Nanoparticles as a Highly Efficient Fenton Catalyst. Angewandte Chemie - International Edition, 2010, 49, 8403-8407.	7.2	175
20	Metal organic frameworks as efficient heterogeneous catalysts for the oxidation of benzylic compounds with t-butylhydroperoxide. Journal of Catalysis, 2009, 267, 1-4.	3.1	167
21	Synthesis and catalytic activity of a chiral periodic mesoporous organosilica (ChiMO). Chemical Communications, 2003, , 1860-1861.	2.2	165
22	Delineating similarities and dissimilarities in the use of metal organic frameworks and zeolites as heterogeneous catalysts for organic reactions. Dalton Transactions, 2011, 40, 6344.	1.6	147
23	Periodic mesoporous organosilica incorporating a catalytically active vanadyl Schiff base complex in the framework. Journal of Catalysis, 2004, 223, 106-113.	3.1	142
24	??-functionalized mesoporous MCM-41 silica shows high activity and selectivity for carboxylic acid esterification and Friedel?Crafts acylation reactions. Journal of Catalysis, 2005, 231, 48-55.	3.1	142
25	Aerobic oxidation of thiols to disulfides using iron metalâ€“organic frameworks as solid redox catalysts. Chemical Communications, 2010, 46, 6476.	2.2	142
26	Biodistribution of Amino-Functionalized Diamond Nanoparticles. In Vivo Studies Based on ¹⁸F Radionuclide Emission. ACS Nano, 2011, 5, 5552-5559.	7.3	138
27	Doped Graphene as a Metalâ€Free Carbocatalyst for the Selective Aerobic Oxidation of Benzylic Hydrocarbons, Cyclooctane and Styrene. Chemistry - A European Journal, 2013, 19, 7547-7554.	1.7	138
28	Fenton-Treated Functionalized Diamond Nanoparticles as Gene Delivery System. ACS Nano, 2010, 4, 65-74.	7.3	137
29	Metal Organic Frameworks as Solid Acid Catalysts for Acetalization of Aldehydes with Methanol. Advanced Synthesis and Catalysis, 2010, 352, 3022-3030.	2.1	136
30	MIL-101 promotes the efficient aerobic oxidative desulfurization of dibenzothiophenes. Green Chemistry, 2016, 18, 508-515.	4.6	128
31	Aerobic Oxidation of Benzyl Amines to Benzyl Imines Catalyzed by Metalâ€“Organic Framework Solids. ChemCatChem, 2010, 2, 1438-1443.	1.8	125
32	Intrazeolite Photochemistry. 17. Zeolites as Electron Donors:â€‰ Photolysis of Methylviologen Incorporated within Zeolites. Journal of Physical Chemistry B, 1997, 101, 3043-3051.	1.2	120
33	Sidewall Functionalization of Single-Walled Carbon Nanotubes with Nitrile Imines. Electron Transfer from the Substituent to the Carbon Nanotube. Journal of Physical Chemistry B, 2004, 108, 12691-12697.	1.2	117
34	Ti as Mediator in the Photoinduced Electron Transfer of Mixed-Metal NH₂â€“UiO-66(Zr/Ti): Transient Absorption Spectroscopy Study and Application in Photovoltaic Cell. Journal of Physical Chemistry C, 2017, 121, 7015-7024.	1.5	116
35	Reaction of chlorine dioxide with emergent water pollutants: Product study of the reaction of three Î²-lactam antibiotics with ClO2. Water Research, 2008, 42, 1935-1942.	5.3	113
36	CO fixation using recoverable chromium salen catalysts: use of ionic liquids as cosolvent or high-surface-area silicates as supports. Journal of Catalysis, 2004, 228, 254-258.	3.1	111

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37	Single-step preparation and catalytic activity of mesoporous MCM-41 and SBA-15 silicas functionalized with perfluoroalkylsulfonic acid groups analogous to NafionÂ®. Chemical Communications, 2004, , 956-957.	2.2	110
38	Visible-light photocatalytic activity of gold nanoparticles supported on template-synthesized mesoporous titania for the decontamination of the chemical warfare agent Soman. Applied Catalysis B: Environmental, 2010, 99, 191-197.	10.8	110
39	Photocatalytic Activity of Structured Mesoporous TiO2Materials. Journal of Physical Chemistry B, 2006, 110, 6661-6665.	1.2	107
40	Metal organic frameworks as catalysts in solvent-free or ionic liquid assisted conditions. Green Chemistry, 2018, 20, 86-107.	4.6	107
41	Iron phthalocyanine supported on silica or encapsulated inside zeolite Y as solid photocatalysts for the degradation of phenols and sulfur heterocycles. Applied Catalysis B: Environmental, 2005, 57, 37-42.	10.8	106
42	Aerobic oxidation of cycloalkenes catalyzed by iron metal organic framework containing N-hydroxyphthalimide. Journal of Catalysis, 2012, 289, 259-265.	3.1	105
43	Aerobic Oxidation of Styrenes Catalyzed by an Iron Metal Organic Framework. ACS Catalysis, 2011, 1, 836-840.	5.5	104
44	Enhancing visible-light photocatalytic activity for overall water splitting in UiO-66 by controlling metal node composition. Applied Catalysis B: Environmental, 2020, 278, 119345.	10.8	104
45	Claisenâ€“Schmidt Condensation Catalyzed by Metalâ€Organic Frameworks. Advanced Synthesis and Catalysis, 2010, 352, 711-717.	2.1	101
46	MIL-101 as Reusable Solid Catalyst for Autoxidation of Benzylic Hydrocarbons in the Absence of Additional Oxidizing Reagents. ACS Catalysis, 2015, 5, 3216-3224.	5.5	100
47	Metal organic frameworks as heterogeneous catalysts for the selective N-methylation of aromatic primary amines with dimethyl carbonate. Applied Catalysis A: General, 2010, 378, 19-25.	2.2	98
48	Metalâ€Organic Frameworks (MOFs) as Heterogeneous Catalysts for the Chemoselective Reduction of Carbonâ€Carbon Multiple Bonds with Hydrazine. Advanced Synthesis and Catalysis, 2009, 351, 2271-2276.	2.1	93
49	General Strategy for High-Density Covalent Functionalization of Diamond Nanoparticles Using Fenton Chemistry. Chemistry of Materials, 2009, 21, 4505-4514.	3.2	93
50	A periodic mesoporous organosilica containing electron acceptor viologen units. Chemical Communications, 2001, , 2546-2547.	2.2	91
51	Polymer-bound aluminium salen complex as reusable catalysts for CO2 insertion into epoxides. Tetrahedron, 2005, 61, 12131-12139.	1.0	87
52	Graphenes as Efficient Metalâ€Free Fenton Catalysts. Chemistry - A European Journal, 2015, 21, 11966-11971.	1.7	87
53	Engineering of activated carbon surface to enhance the catalytic activity of supported cobalt oxide nanoparticles in peroxymonosulfate activation. Applied Catalysis B: Environmental, 2019, 249, 42-53.	10.8	87
54	Synthesis of Chiral Periodic Mesoporous Silicas (ChiMO) of MCM-41 Type with Binaphthyl and Cyclohexadiyl Groups Incorporated in the Framework and Direct Measurement of Their Optical Activity. Chemistry of Materials, 2004, 16, 2222-2228.	3.2	86

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55	Photochemical Response of Commercial MOFs: Al₂(BDC)₃ and Its Use As Active Material in Photovoltaic Devices. Journal of Physical Chemistry C, 2011, 115, 22200-22206.	1.5	83
56	Intracrystalline diffusion in Metal Organic Framework during heterogeneous catalysis: Influence of particle size on the activity of MIL-100 (Fe) for oxidation reactions. Dalton Transactions, 2011, 40, 10719.	1.6	79
57	Intrazeolite Photochemistry. 20. Characterization of Highly Luminescent Europium Complexes inside Zeolites. Journal of Physical Chemistry B, 1998, 102, 8744-8750.	1.2	75
58	Screening of an ionic liquid as medium for photochemical reactions. Chemical Physics Letters, 2002, 362, 435-440.	1.2	74
59	Nano-Jewels in Biology. Gold and Platinum on Diamond Nanoparticles as Antioxidant Systems Against Cellular Oxidative Stress. ACS Nano, 2010, 4, 6957-6965.	7.3	73
60	Atmosphericâ€Pressure, Liquidâ€Phase, Selective Aerobic Oxidation of Alkanes Catalysed by Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2011, 17, 6256-6262.	1.7	70
61	Exploring the catalytic performance of a series of bimetallic MIL-100(Fe, Ni) MOFs. Journal of Materials Chemistry A, 2019, 7, 20285-20292.	5.2	69
62	Carbohydrates as trihalomethanes precursors. Influence of pH and the presence of Clâ^' and Brâ^' on trihalomethane formation potential. Water Research, 2008, 42, 3990-4000.	5.3	68
63	Influence of co-catalysts on the photocatalytic activity of MIL-125(Ti)-NH2 in the overall water splitting. Applied Catalysis B: Environmental, 2019, 254, 677-684.	10.8	65
64	High catalytic activity of oriented 2.0.0 copper(I) oxide grown on graphene film. Nature Communications, 2015, 6, 8561.	5.8	63
65	Graphene Oxide as Catalyst for the Acetalization of Aldehydes at Room Temperature. ChemCatChem, 2012, 4, 2026-2030.	1.8	62
66	Influence of functionalization of terephthalate linker on the catalytic activity of UiO-66 for epoxide ring opening. Journal of Molecular Catalysis A, 2016, 425, 332-339.	4.8	58
67	Polymerization of Alkynes in the Channels of Mesoporous Materials Containing Ni and Zn Cations:Â Almost Complete Filling of the Voids. Journal of the American Chemical Society, 2001, 123, 3141-3142.	6.6	57
68	Reversible Porosity Changes in Photoresponsive Azobenzene-Containing Periodic Mesoporous Silicas. Chemistry of Materials, 2005, 17, 4958-4964.	3.2	55
69	Photochemical modification of the surface area and tortuosity of a trans-1,2-bis(4-pyridyl)ethylene periodic mesoporous MCM organosilica. Chemical Communications, 2002, , 2012-2013.	2.2	54
70	Chlorine dioxide reaction with selected amino acids in water. Journal of Hazardous Materials, 2009, 164, 1089-1097.	6.5	54
71	Graphene as a Quencher of Electronic Excited States of Photochemical Probes. Langmuir, 2012, 28, 2849-2857.	1.6	54
72	Intrazeolite Photochemistry. 21. 2,4,6-Triphenylpyrylium Encapsulated inside Zeolite Y Supercages as Heterogeneous Photocatalyst for the Generation of Hydroxyl Radical. Journal of the American Chemical Society, 1998, 120, 7351-7352.	6.6	53

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73	Reduction of alkenes catalyzed by copper nanoparticles supported on diamond nanoparticles. Chemical Communications, 2013, 49, 2359.	2.2	53
74	Electrical Conductivity of Zeolite Films:â€‰ Influence of Charge Balancing Cations and Crystal Structure. Chemistry of Materials, 2006, 18, 26-33.	3.2	52
75	2,4,6-Triphenylpyrylium ion encapsulated within Y zeolite as photocatalyst for the degradation of methyl parathion. Water Research, 2000, 34, 320-326.	5.3	51
76	Synthesis and photochemistry of soluble, pentyl ester-modified single wall carbon nanotube. Chemical Physics Letters, 2004, 386, 342-345.	1.2	51
77	An organically modified single wall carbon nanotube containing a pyrene chromophore: fluorescence and diffuse reflectance laser flash photolysis study. Chemical Physics Letters, 2004, 384, 119-123.	1.2	50
78	Visible-light Câ€“heteroatom bond cleavage and detoxification of chemical warfare agents using titania-supported gold nanoparticles as photocatalyst. Journal of Materials Chemistry, 2010, 20, 4050.	6.7	50
79	Optimized water treatment by combining catalytic Fenton reaction using diamond supported gold and biological degradation. Applied Catalysis B: Environmental, 2011, 103, 246-252.	10.8	50
80	Functional Molecules from Single Wall Carbon Nanotubes. Photoinduced Solubility of Short Single Wall Carbon Nanotube Residues by Covalent Anchoring of 2,4,6-Triarylpyrylium Units. Journal of the American Chemical Society, 2007, 129, 5647-5655.	6.6	49
81	General aspects in the use of graphenes in catalysis. Materials Horizons, 2018, 5, 363-378.	6.4	49
82	2, 4, 6-Triphenylpyrylium ion encapsulated in Y zeolite as photocatalyst. A co-operative contribution of the zeolite host to the photodegradation of 4-chlorophenoxyacetic acid using solar light. Applied Catalysis B: Environmental, 1998, 15, 247-257.	10.8	48
83	Enhanced Photocatalytic Activity of Zeolite-Encapsulated TiO2 Clusters by Complexation with Organic Additives and N-Doping. ChemPhysChem, 2006, 7, 200-205.	1.0	48
84	Iron oxide nanoparticles supported on diamond nanoparticles as efficient and stable catalyst for the visible light assisted Fenton reaction. Applied Catalysis B: Environmental, 2018, 226, 242-251.	10.8	47
85	Reduced Graphene Oxide as a Metalâ€Free Catalyst for the Lightâ€Assisted Fentonâ€Like Reaction. ChemCatChem, 2016, 8, 2642-2648.	1.8	46
86	Intrazeolite Photochemistry. 26. Photophysical Properties of Nanosized TiO2Clusters Included in Zeolites Y, Î², and Mordenite. Chemistry of Materials, 2001, 13, 715-722.	3.2	45
87	Chemical instability of Cu3(BTC)2 by reaction with thiols. Catalysis Communications, 2011, 12, 1018-1021.	1.6	44
88	Sunlightâ€Assisted Fenton Reaction Catalyzed by Gold Supported on Diamond Nanoparticles as Pretreatment for Biological Degradation of Aqueous Phenol Solutions. ChemSusChem, 2011, 4, 650-657.	3.6	44
89	Influence of the Preparation Procedure on the Catalytic Activity of Gold Supported on Diamond Nanoparticles for Phenol Peroxidation. Chemistry - A European Journal, 2011, 17, 9494-9502.	1.7	44
90	Aerobic Oxidation of Thiols Catalyzed by Copper Nanoparticles Supported on Diamond Nanoparticles. ChemCatChem, 2013, 5, 241-246.	1.8	44

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91	Influence of Terephthalic Acid Substituents on the Catalytic Activity of MILâ€101(Cr) in Three Lewis Acid Catalyzed Reactions. ChemCatChem, 2017, 9, 2506-2511.	1.8	44
92	Cu(II)-Schiff base covalently anchored to MIL-125(Ti)-NH2 as heterogeneous catalyst for oxidation reactions. Journal of Colloid and Interface Science, 2018, 532, 700-710.	5.0	44
93	A novel copper(<scp>ii</scp>)â€“lanthanum(<scp>iii</scp>) metal organic framework as a selective catalyst for the aerobic oxidation of benzylic hydrocarbons and cycloalkenes. Catalysis Science and Technology, 2016, 6, 3727-3736.	2.1	42
94	Laser Flash Photolysis Study of Jacobsen Catalyst and Related Manganese(III) Salen Complexes. Relevance to Catalysis. Journal of the American Chemical Society, 2001, 123, 7074-7080.	6.6	41
95	Gold Nanoparticles Supported on Nanoparticulate Ceria as a Powerful Agent against Intracellular Oxidative Stress. Small, 2012, 8, 1895-1903.	5.2	40
96	Degradation of propoxur in water using 2,4,6-triphenylpyryliumâ€“Zeolite Y as photocatalyst. Applied Catalysis B: Environmental, 2000, 25, 257-265.	10.8	39
97	Polymerâ€and Ionic Liquidâ€Containing Palladium: Recoverable Soluble Crossâ€Coupling Catalysts. ChemCatChem, 2013, 5, 3460-3480.	1.8	39
98	Covalently Modified Graphenes in Catalysis, Electrocatalysis and Photoresponsive Materials. Chemistry - A European Journal, 2017, 23, 15244-15275.	1.7	39
99	Synergism of Activated Carbon and Undoped and Nitrogenâ€doped TiO₂ in the Photocatalytic Degradation of the Chemical Warfare Agents Soman, VX, and Yperite. ChemSusChem, 2009, 2, 427-436.	3.6	38
100	Highly fluorescent C-dots obtained by pyrolysis of quaternary ammonium ions trapped in all-silica ITQ-29 zeolite. Nanoscale, 2015, 7, 1744-1752.	2.8	38
101	Electrochemistry of Mesoporous Organosilica of MCM-41 Type Containing 4,4â€˜-Bipyridinium Units:Â Voltammetric Response and Electrocatalytic Effect on 1,4-Dihydrobenzoquinone Oxidation. Journal of Physical Chemistry B, 2003, 107, 12781-12788.	1.2	37
102	A Novel Concept for Photovoltaic Cells: Clusters of Titanium Dioxide Encapsulated within Zeolites as Photoactive Semiconductors. ChemPhysChem, 2006, 7, 1996-2002.	1.0	35
103	Photocatalytic water disinfection of Cryptosporidium parvum and Giardia lamblia using a fibrous ceramic TiO2 photocatalyst. Water Science and Technology, 2009, 59, 639-645.	1.2	35
104	Hydroxyalkylation of benzene derivatives by benzaldehyde in the presence of acid zeolites. Applied Catalysis A: General, 1998, 175, 105-112.	2.2	34
105	Increasing the Stability of Electroluminescent Phenylenevinylene Polymers by Encapsulation in Nanoporous Inorganic Materials. Chemistry of Materials, 2004, 16, 2142-2147.	3.2	34
106	Preparation and Photochemistry of Single Wall Carbon Nanotubes Having Covalently Anchored Viologen Units. Journal of Physical Chemistry B, 2005, 109, 7692-7697.	1.2	33
107	Copper Nanoparticles Supported on Doped Graphenes as Catalyst for the Dehydrogenative Coupling of Silanes and Alcohols. Angewandte Chemie - International Edition, 2014, 53, 12581-12586.	7.2	33
108	Photocatalytic degradation of sulphur-containing aromatic compounds in the presence of zeolite-bound 2,4,6-triphenylpyrylium and 2,4,6-triphenylthiapyrylium. Applied Catalysis B: Environmental, 2004, 51, 195-202.	10.8	32

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109	Friedelâ€“Crafts hydroxyalkylation: reaction of anisole with paraformaldehyde catalyzed by zeolites in supercritical CO2. Journal of Catalysis, 2003, 219, 464-468.	3.1	31
110	Influence of Hydrogen Annealing on the Photocatalytic Activity of Diamond-Supported Gold Catalysts. ACS Applied Materials & Interfaces, 2013, 5, 7160-7169.	4.0	31
111	Bimetallic iron-copper oxide nanoparticles supported on nanometric diamond as efficient and stable sunlight-assisted Fenton photocatalyst. Chemical Engineering Journal, 2020, 393, 124770.	6.6	31
112	Ship-in-a-bottle synthesis of 2,4,6-triphenylthiapyrylium cations encapsulated in zeolites Y and beta: a novel robust photocatalyst. Photochemical and Photobiological Sciences, 2004, 3, 189.	1.6	30
113	Influence of radical initiators in gold catalysis: Evidence supporting trapping of radicals derived from azobis(isobutyronitrile) by gold halides. Journal of Catalysis, 2007, 245, 249-252.	3.1	30
114	Photochemistry of gold nanoparticles functionalized with an iron(ii) terpyridine complex. An integrated visible light photocatalyst for hydrogen generation. Dalton Transactions, 2009, , 7437.	1.6	30
115	Photochemistry of single wall carbon nanotubes embedded in a mesoporous silica matrix. Chemical Communications, 2002, , 3004-3005.	2.2	29
116	Sensitizers on Inorganic Carriers for Decomposition of the Chemical Warfare Agent Yperite. Environmental Science & Technology, 2008, 42, 4908-4913.	4.6	29
117	Generating and optimizing the catalytic activity in UiO-66 for aerobic oxidation of alkenes by post-synthetic exchange Ti atoms combined with ligand substitution. Journal of Catalysis, 2018, 365, 450-463.	3.1	29
118	Photoinduced Electron Transfer in Ionic Liquids:Â Use of 2,4,6-Triphenylthiapyrylium as a Photosensitizer Probe. Journal of Physical Chemistry B, 2006, 110, 14956-14960.	1.2	28
119	Ca2+ and Mg2+ present in hard waters enhance trihalomethane formation. Journal of Hazardous Materials, 2009, 169, 901-906.	6.5	28
120	Alginate as Template in the Preparation of Active Titania Photocatalysts. ChemCatChem, 2013, 5, 513-518.	1.8	28
121	Silver Nanoparticles Supported on Diamond Nanoparticles as a Highly Efficient Photocatalyst for the Fenton Reaction under Natural Sunlight Irradiation. ChemCatChem, 2015, 7, 2682-2688.	1.8	28
122	Nickel nanoparticles supported on graphene as catalysts for aldehyde hydrosilylation. Journal of Molecular Catalysis A, 2016, 412, 13-19.	4.8	28
123	Influence of the organic linker substituent on the catalytic activity of MIL-101(Cr) for the oxidative coupling of benzylamines to imines. Catalysis Science and Technology, 2017, 7, 1351-1362.	2.1	28
124	Design of stable mixed-metal MIL-101(Cr/Fe) materials with enhanced catalytic activity for the Prins reaction. Journal of Materials Chemistry A, 2020, 8, 17002-17011.	5.2	28
125	Study of Redox Processes in Zeolite Y-Associated 2,4,6-Triphenylthiopyrylium Ion by Square Wave Voltammetry. Journal of Physical Chemistry B, 2003, 107, 3040-3050.	1.2	27
126	Influence of pretreatments on commercial diamond nanoparticles on the photocatalytic activity of supported gold nanoparticles under natural Sunlight irradiation. Applied Catalysis B: Environmental, 2013, 142-143, 259-267.	10.8	27

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127	Tunability by alkali metal cations of photoinduced charge separation in azacrown functionalized graphene. Chemical Communications, 2013, 49, 3236.	2.2	27
128	Palladium nanoparticles supported on graphene as catalysts for the dehydrogenative coupling of hydrosilanes and amines. Catalysis Science and Technology, 2015, 5, 2167-2173.	2.1	27
129	Graphenes as Metalâ€free Catalysts for the Oxidative Depolymerization of Lignin Models. ChemCatChem, 2015, 7, 3020-3026.	1.8	27
130	Nâ€Hydroxyphthalimide Anchored on Diamond Nanoparticles as a Selective Heterogeneous Metalâ€free Oxidation Catalyst of Benzylic Hydrocarbons and Cyclic Alkenes by Molecular O₂. ChemCatChem, 2018, 10, 198-205.	1.8	27
131	Electrochemiluminescence of a Periodic Mesoporous Organosilica Containing 9,10-Diarylanthracene Units. Journal of Physical Chemistry C, 2007, 111, 7532-7538.	1.5	26
132	Ruthenium(II) Tris(2,2â€²-bipyridyl) Complex Incorporated in UiO-67 as Photoredox Catalyst. Journal of Physical Chemistry C, 2018, 122, 29190-29199.	1.5	26
133	Modified mesoporous MCM-41 as hosts for photochromic spirobenzopyrans. Photochemical and Photobiological Sciences, 2002, 1, 219-223.	1.6	26
134	Liposomes by Polymerization of an Imidazolium Ionic Liquid: Use as Microreactors for Goldâ€Catalyzed Alcohol Oxidation. Chemistry - A European Journal, 2009, 15, 13082-13089.	1.7	25
135	Structured Mesoporous Tin Oxide with Electrical Conductivity. Application in Electroluminescence. Journal of the American Chemical Society, 2009, 131, 1342-1343.	6.6	25
136	Novel photocatalysts containing 2,4,6-triphenylthiapyrylium encapsulated within zeolites. Enhanced photocatalytic activity as compared to the pyrylium analogues. New Journal of Chemistry, 2004, 28, 631-639.	1.4	23
137	Long-lived (minutes) photoinduced charge separation in a structured periodic mesoporous titania containing 2,4,6-triphenylpyrylium as guest. Dalton Transactions, 2008, , 5465.	1.6	23
138	Reduction of Câ•C Double Bonds by Hydrazine Using Active Carbons as Metal-Free Catalysts. ACS Sustainable Chemistry and Engineering, 2018, 6, 5607-5614.	3.2	23
139	Diamond Nanoparticles in Heterogeneous Catalysis. Chemistry of Materials, 2020, 32, 4116-4143.	3.2	23
140	New photochemical approaches to the synthesis of chromones. Tetrahedron, 1987, 43, 143-148.	1.0	22
141	Heterogeneous Gif oxidation of cyclohexane using Fe3+-picolinate complex encapsulated within zeolites. Tetrahedron, 1999, 55, 11895-11902.	1.0	22
142	Photochemical Generation of Electrons and Holes in Germanium-Containing ITQ-17 Zeolite. Journal of Physical Chemistry B, 2005, 109, 3696-3700.	1.2	21
143	Covalent Functionalization of Short, Single-Wall Carbon Nanotubes: Photophysics of 2,4,6-Triphenylpyrylium Attached to the Nanotube Walls. Chemistry of Materials, 2009, 21, 884-890.	3.2	21
144	Photocatalytic hydrogen generation from waterâ€“methanol mixtures using halogenated reconstituted graphenes. Journal of Materials Chemistry A, 2013, 1, 11728.	5.2	21

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145	MIL-101(Cr)-NO2 as efficient catalyst for the aerobic oxidation of thiophenols and the oxidative desulfurization of dibenzothiophenes. Applied Catalysis A: General, 2020, 590, 117340.	2.2	21
146	Bipyridinium Macroring Encapsulated within Zeolite Y Supercages. Preparation and Intrazeolitic Photochemistry of a Common Electron Acceptor Component of Rotaxanes and Catenanes. Journal of Physical Chemistry B, 2002, 106, 6815-6820.	1.2	20
147	Deactivation of Cu3(BTC)2 in the Synthesis of 2-Phenylquinoxaline. Catalysis Letters, 2015, 145, 1600-1605.	1.4	20
148	Copper nanoparticles supported on diamond nanoparticles as a cost-effective and efficient catalyst for natural sunlight assisted Fenton reaction. Catalysis Science and Technology, 2016, 6, 7077-7085.	2.1	20
149	First molecular switch encapsulated within the cavities of a zeolite. A dramatic lifetime increase of the charge-separated state. Chemical Communications, 2001, , 2106-2107.	2.2	19
150	Remarkably high electrochemical charge uptake for modified electrodes of polyacetylene molecular wires encapsulated within zeolites and mesoporous MCM-41 aluminosilicate. Chemical Physics Letters, 2002, 356, 577-584.	1.2	19
151	Electrochemiluminescence of Zeolite-Encapsulated Poly(p-phenylenevinylene). Journal of the American Chemical Society, 2007, 129, 8074-8075.	6.6	19
152	Superior Performance of Fe(BTC) With Respect to Other Metalâ€Containing Solids in the Nâ€Hydroxyphthalimideâ€Promoted Heterogeneous Aerobic Oxidation of Cycloalkanes. ChemCatChem, 2013, 5, 1964-1970.	1.8	19
153	Microsecond Transient Absorption Spectra of Suspended Semiconducting Metal Oxide Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 9275-9282.	1.5	19
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