Mohamed Mokhtar Mohamed

List of Publications by Year
in descending order

104 papers	3,259 citations	126708 33 h-index	168136 53 g-index
106 all docs	106 docs citations	106 times ranked	4274 citing authors

#	Article	IF	Citations
1	Synthesis of magnetically recyclable spinel ferrite (MFe2O4, M = Zn, Co, Mn) nanocrystals engineered by sol gel-hydrothermal technology: High catalytic performances for nitroarenes reduction. Applied Catalysis B: Environmental, 2016, 181, 389-402.	10.8	221
2	Acid dye removal: comparison of surfactant-modified mesoporous FSM-16 with activated carbon derived from rice husk. Journal of Colloid and Interface Science, 2004, 272, 28-34.	5.0	161
3	In vitro and in vivo evaluation of biologically synthesized silver nanoparticles for topical applications: effect of surface coating and loading into hydrogels. International Journal of Nanomedicine, 2017, Volume 12, 759-777.	3.3	126
4	Visible light assisted reduction of 4-nitrophenol to 4-aminophenol on Ag/TiO2 photocatalysts synthesized by hybrid templates. Applied Catalysis B: Environmental, 2013, 142-143, 432-441.	10.8	121
5	Unprecedented high photocatalytic activity of nanocrystalline WO3/NiWO4 hetero-junction towards dye degradation: Effect of template and synthesis conditions. Applied Catalysis B: Environmental, 2014, 150-151, 63-73.	10.8	101
6	Characterization, adsorption and photocatalytic activity of vanadium-doped TiO2 and sulfated TiO2 (rutile) catalysts: Degradation of methylene blue dye. Journal of Molecular Catalysis A, 2006, 255, 53-61.	4.8	97
7	Synthesis and modification of ZSM-5 with manganese and lanthanum and their effects on decolorization of indigo carmine dye. Applied Catalysis A: General, 2006, 299, 95-102.	2.2	96
8	Zinc oxide incorporated carbon nanotubes or graphene oxide nanohybrids for enhanced sonophotocatalytic degradation of methylene blue dye. Applied Surface Science, 2019, 487, 539-549.	3.1	81
9	Synthesis of ZSM-5 zeolite from rice husk ash: Characterization and implications for photocatalytic degradation catalysts. Microporous and Mesoporous Materials, 2008, 108, 193-203.	2.2	79
10	Photo-degradation of acid green dye over Coâ€“ZSM-5 catalysts prepared by incipient wetness impregnation technique. Journal of Hazardous Materials, 2008, 153, 364-371.	6.5	75
11	Synthesis and characterization of MnOx/TiO2 nanoparticles for photocatalytic oxidation of indigo carmine dye. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 191, 153-161.	2.0	73
12	Synthesis, characterization and catalytic properties of titaniaâ€“silica catalysts. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 207, 25-32.	2.3	71
13	Copper (II) phthalocyanines immobilized on alumina and encapsulated inside zeolite-X and their applications in photocatalytic degradation of cyanide: A comparative study. Applied Catalysis A: General, 2008, 340, 16-24.	2.2	71
14	Spectroscopic Identification of Adsorbed Intermediates Derived from the CO+H2O Reaction on Zeolite-Encapsulated Gold Catalysts. Journal of Colloid and Interface Science, 2000, 224, 366-371.	5.0	66
15	Fabrication of Ag nanoparticles modified TiO2â€“CNT heterostructures for enhanced visible light photocatalytic degradation of organic pollutants and bacteria. Journal of Environmental Chemical Engineering, 2015, 3, 1847-1859.	3.3	59
16	Mn₃O₄/graphene nanocomposites: outstanding performances as highly efficient photocatalysts and microwave absorbers. RSC Advances, 2017, 7, 826-839.	1.7	59
17	Infrared spectroscopy study of the nature and reactivity of a hydrate coverage on the surface of Î³-Al2O3. Colloids and Surfaces, 1989, 36, 427-437.	0.9	55
18	Preparation and characterization of nano-silver/mesoporous titania photocatalysts for herbicide degradation. Microporous and Mesoporous Materials, 2011, 142, 130-138.	2.2	49

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19	Ultrahigh antibacterial efficacy of meropenem-loaded chitosan nanoparticles in a septic animal model. Carbohydrate Polymers, 2017, 174, 1041-1050.	5.1	49
20	Rational design of manganese ferrite-graphene hybrid photocatalysts: Efficient water splitting and effective elimination of organic pollutants. Applied Catalysis A: General, 2016, 524, 182-191.	2.2	48
21	Optimization of Î±-Fe 2 O 3 @Fe 3 O 4 incorporated N-TiO 2 as super effective photocatalysts under visible light irradiation. Applied Surface Science, 2017, 412, 668-682.	3.1	47
22	Effect of thermal treatment on surface and bulk properties of Fe/ZSM-5 zeolites prepared by different methods. Microporous and Mesoporous Materials, 2005, 87, 93-102.	2.2	45
23	Synthesis of Graphene Oxide Interspersed in Hexagonal WO3 Nanorods for High-Efficiency Visible-Light Driven Photocatalysis and NH3 Gas Sensing. Frontiers in Chemistry, 2019, 7, 722.	1.8	45
24	Synthesis of microâ€“mesoporous TiO2 materials assembled via cationic surfactants: Morphology, thermal stability and surface acidity characteristics. Microporous and Mesoporous Materials, 2007, 103, 174-183.	2.2	44
25	Synthesis of high silica mordenite nanocrystals using o-phenylenediamine template. Microporous and Mesoporous Materials, 2005, 84, 84-96.	2.2	42
26	Synthesis of hexagonal WO3 nanocrystals with various morphologies and their enhanced electrocatalytic activities toward hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 4724-4736.	3.8	42
27	TiO2ZnO photocatalysts synthesized by solâ€“gel auto-ignition technique for hydrogen production. International Journal of Hydrogen Energy, 2017, 42, 5016-5025.	3.8	41
28	Enhancement of Photocatalytic and Sonophotocatalytic Degradation of 4-nitrophenol by ZnO/Graphene Oxide and ZnO/Carbon Nanotube Nanocomposites. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 396, 112507.	2.0	41
29	Degradation of benzene, toluene ethylbenzene andp-xylene(BTEX) in aqueous solutions using UV/H2O2 system. Journal of Chemical Technology and Biotechnology, 2004, 79, 468-474.	1.6	38
30	Structural and catalytic characteristics of MoO3/CeO2 catalysts: CO oxidation activity. Applied Catalysis A: General, 2005, 287, 236-243.	2.2	38
31	Activity and stability studies of titanates and titanate-carbon nanotubes supported Ag anode catalysts for direct methanol fuel cell. Journal of Power Sources, 2016, 304, 255-265.	4.0	38
32	Characterization of Gold(I) in Dealuminated H-Mordenite Zeolite. Langmuir, 2001, 17, 5678-5684.	1.6	36
33	A novel Î±-Fe2O3/AlOOH(Î³-Al2O3) nanocatalyst for efficient biodiesel production from waste oil: Kinetic and thermal studies. Renewable Energy, 2020, 160, 450-464.	4.3	34
34	Facile synthesis of mesoporous bicrystallized TiO2(B)/anatase (rutile) phases as active photocatalysts for nitrate reduction. Catalysis Communications, 2012, 28, 58-63.	1.6	33
35	One pot synthesis of silver nanoparticles supported on TiO2 using hybrid polymers as template and its efficient catalysis for the reduction of 4-nitrophenol. Materials Chemistry and Physics, 2012, 136, 528-537.	2.0	33
36	Carbon nanotube/titanium nanotube composites loaded platinum nanoparticles as high performance photocatalysts. Applied Catalysis A: General, 2014, 475, 90-97.	2.2	32

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37	Characterization of intrazeolitic Fe3+ prepared by chemical vapor deposition of [(C5H5)Fe(CO)2]2 inside NaY and FSM-16 zeolites and their catalytic activities towards phenol hydroxylation. Materials Research Bulletin, 2003, 38, 1993-2007.	2.7	31
38	Synthesis and structural characterization of TiO2 and V2O5/TiO2 nanoparticles assembled by the anionic surfactant sodium dodecyl sulfate. Microporous and Mesoporous Materials, 2006, 97, 66-77.	2.2	31
39	Facile strategy of synthesizing Î±-MoO3â¯x nanorods boosted as traced by 1% graphene oxide: Efficient visible light photocatalysis and gas sensing applications. Sensors and Actuators B: Chemical, 2019, 299, 126960.	4.0	31
40	Structural and textural characteristics of Ce-containing mordenite and ZSM-5 solids and FT-IR spectroscopic investigation of the reactivity of NO gas adsorbed on them. Applied Catalysis A: General, 2005, 286, 85-95.	2.2	30
41	Spectroscopic and Kinetic Studies of the Reaction of CO+H2O and CO+O2 and Decomposition of HCOOH on Au/H-Mordenite Catalysts. Journal of Colloid and Interface Science, 2000, 232, 381-388.	5.0	28
42	Effect of ceria-doped titania on the structure and acidic properties of MoO3/TiO2 catalysts. Applied Catalysis A: General, 2004, 267, 135-142.	2.2	28
43	Nitrogen Graphene: A New and Exciting Generation of Visible Light Driven Photocatalyst and Energy Storage Application. ACS Omega, 2018, 3, 1801-1814.	1.6	28
44	Low temperature water-gas shift reaction on cerium containing mordenites prepared by different methods. Applied Catalysis A: General, 2005, 279, 23-33.	2.2	27
45	SnO₂(Î²-Bi₂O₃)/Bi₂Sn₂O₇ nanohybrids doped with Pt and Pd nanoparticles: applications in visible light photocatalysis, electrical conductivity and dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2015, 17, 21716-21728.	1.3	23
46	Tuning the redox potential of Ag@Ag2O/WO3 and Ag@Ag2S/WO3 photocatalysts toward diclofenac oxidation and nitrophenol reduction. Materials Research Bulletin, 2021, 137, 111193.	2.7	23
47	Polyethylene glycol assisted one-pot hydrothermal synthesis of NiWO4/WO3 heterojunction for direct Methanol fuel cells. Electrochimica Acta, 2018, 263, 286-298.	2.6	22
48	Gold loaded titanium dioxideâ€“carbon nanotube composites as active photocatalysts for cyclohexane oxidation at ambient conditions. RSC Advances, 2015, 5, 46405-46414.	1.7	21
49	Photovoltaic and capacitance performance of low-resistance ZnO nanorods incorporated into carbon nanotube-graphene oxide nanocomposites. Electrochimica Acta, 2019, 307, 430-441.	2.6	21
50	Electrical and chemical characteristics of nano-meter gold encapsulated in mesoporous and microporous channels and cages of FSM-16 and Y zeolites. Journal of Physics and Chemistry of Solids, 2003, 64, 299-306.	1.9	20
51	Pd-doped Î²-Bi2O3/Bi2Sn2O7 hybrid nanocomposites for photocatalytic fluorene oxidation: A green approach for the synthesis of fluorenone/fluorenol mixture. Microporous and Mesoporous Materials, 2015, 204, 62-72.	2.2	20
52	Heat capacities, phase transitions and structural properties of cation-exchanged H-mordenite zeolites. Thermochimica Acta, 2001, 372, 75-83.	1.2	19
53	Enhanced degradation of benzo[a]pyrene and toxicity reduction by microbubble ozonation. Environmental Technology (United Kingdom), 2021, 42, 1853-1860.	1.2	19
54	Adsorption properties of ionic surfactants on molybdenum-modified silica gels. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 108, 39-48.	2.3	18

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55	Effect of annealing temperature and Ag contents on the catalytic activity and supercapacitor performances of Ag@Ag2O/RGO nanocomposites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 242, 90-103.	1.7	18
56	Structural, optical, dielectric and magnetic properties of Bi1â˜'xLaxFeO3 nanoparticles. Journal of Magnetism and Magnetic Materials, 2018, 465, 309-315.	1.0	17
57	Fourier-transform infrared/photoacoustic study of pyridine adsorbed on silica supported copper-molybdenum catalysts. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1995, 51, 1-9.	2.0	16
58	Acidic properties of sulfated iron oxide supported molybdenum catalysts: a differential scanning calorimetry, thermogravimetry and Fourier transform-infrared study. Thermochimica Acta, 2000, 359, 109-117.	1.2	16
59	Synthesis of ZSM-5 zeolite of improved bulk and surface properties via mixed templates. Journal of Materials Science, 2007, 42, 4066-4075.	1.7	16
60	Fabrication and characterization of bimetallic Ptâ€“Au nanowires supported on FSM-16 and their catalytic activities toward waterâ€“gas shift reaction. Journal of Colloid and Interface Science, 2011, 354, 100-108.	5.0	16
61	Treatment and halogenation on low molybdenum silica: Diffuse reflectance IR Fourier transform study (DRIFTS). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1995, 51, 1525-1531.	2.0	15
62	Catalytic properties of Fe ion-exchanged mordenite toward the ethanol transformation: influence of the methods of preparation. Journal of Molecular Catalysis A, 2003, 200, 301-313.	4.8	15
63	Structural features and photocatalytic behavior of titania and titania supported vanadia synthesized by polyol functionalized materials. Microporous and Mesoporous Materials, 2008, 109, 445-457.	2.2	15
64	Dispersed Ag2O/Ag on CNT-Graphene Composite: An Implication for Magnificent Photoreduction and Energy Storage Applications. Frontiers in Chemistry, 2018, 6, 250.	1.8	15
65	Effect of Mordenite Dealumination on the Structure of Encapsulated Molybdenum Catalysts. Journal of Colloid and Interface Science, 2002, 249, 104-112.	5.0	14
66	Structural and acidic characteristics of Cuâ€“Ni-modified acid-leached mordenites. Journal of Colloid and Interface Science, 2003, 265, 106-114.	5.0	14
67	Surfactant-assisted formation of silver titanates as active catalysts for methanol electro-oxidation. Applied Catalysis A: General, 2017, 547, 205-213.	2.2	14
68	Spectrophotometric determination of trace amounts of molybdenum using morin and cetylpyridinium chloride. Fresenius' Journal of Analytical Chemistry, 1991, 339, 197-198.	1.5	13
69	Comparison of the structural properties of isomorphously substituted Fe in mordenite zeolites prepared by different methods. Journal of Colloid and Interface Science, 2003, 259, 331-337.	5.0	13
70	Rapid reduction of nitroarenes photocatalyzed by an innovative Mn3O4/Î±-Ag2WO4 nanoparticles. Scientific Reports, 2020, 10, 21495.	1.6	13
71	An innovative nanocatalyst Î±-Fe2O3/AlOOH processed from gibbsite rubbish ore for efficient biodiesel production via utilizing cottonseed waste oil. Fuel, 2021, 297, 120741.	3.4	13
72	Spectrophotometric determination of molybdenum with 7,8-dihydroxy-4-methylcoumarin and cetyltrimethylammonium bromide. Talanta, 1990, 37, 1091-1095.	2.9	12

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73	Synthesis and characterization of mordenites encapsulated titania nanoparticles: Photocatalytic degradation of meta-chlorophenol. Journal of Molecular Catalysis A, 2007, 273, 198-210.	4.8	11
74	Graphene oxide dispersed in N-TiO2 nanoplatelets and their implication in wastewater remediation under visible light illumination: Photoelectrocatalytic and photocatalytic properties. Journal of Environmental Chemical Engineering, 2019, 7, 102884.	3.3	11
75	Ionic conductivity of metallic cations encapsulated in zeolite Y and mordenite. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 139, 226-231.	1.7	10
76	Methanol photo-oxidation at graphene and carbon nanotubes modified TiO 2 nanosheets electrocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 338, 37-48.	2.0	10
77	Catalytic polymerization of N,N-diethanol acrylamide with phthalic anhydride in the presence of H-mordenite and Fe-mordenite zeolites. Journal of Molecular Catalysis A, 2004, 211, 199-208.	4.8	9
78	Enhanced performance of BiFeO3@nitrogen doped TiO2 core-shell structured nanocomposites: Synergistic effect towards solar cell amplification. Arabian Journal of Chemistry, 2020, 13, 2611-2619.	2.3	9
79	P-n junction based Ag2O@Ag@Coated functionalized carbon nanotubes and their efficient visible-light photocatalytic reduction performances. Microporous and Mesoporous Materials, 2020, 292, 109734.	2.2	9
80	Ceria-modified zirconia and their effects on the molybdenum oxide dispersion. Materials Chemistry and Physics, 2003, 77, 704-710.	2.0	8
81	Ce-containing Mordenites: Synthesis, structure and reactivity towards NO and CO gases. Microporous and Mesoporous Materials, 2006, 93, 71-81.	2.2	8
82	C3N4 interlayer formation while synthesizing black titania and their dye sensitized solar cell and conductivity performances. Solar Energy Materials and Solar Cells, 2021, 232, 111347.	3.0	8
83	Morphological Characteristics of Gold Nanowires and Nanoparticles: Structure Elucidation and Reactivity Toward Water-gas Shift Reaction. Energy & Fuels, 2009, 23, 4413-4419.	2.5	7
84	Optimal design of silver@silver sulfide-modified WS2 and its application in photocatalytic diclofenac degradation and H2 generation. Journal of Environmental Chemical Engineering, 2021, 9, 106446.	3.3	7
85	Application of rhodanine, fluorene and semicarbazide hydrochloride as new spectrophotometric reagents for quinones. Mikrochimica Acta, 1986, 90, 321-328.	2.5	6
86	Structural and acidic properties of copper-silica catalysts 1. A differential scanning calorimetry and Fourier transform-infrared/photoacoustic study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1995, 96, 253-260.	2.3	6
87	Study of Warm-Electron Injection in Double-Gate SONOS by Full-Band Monte Carlo Simulation. IEEE Electron Device Letters, 2008, 29, 1242-1244.	2.2	6
88	CO/Water and UVâ^'vis Assisted Assembly of Nanostructured Platinum Wires in Mesoporous Silica. Journal of Physical Chemistry C, 2008, 112, 8890-8897.	1.5	5
89	Synthesis of defect-impressive boron graphene as a remarkable electrocatalyst for methanol oxidation reaction. Journal of Materials Research and Technology, 2022, 16, 362-372.	2.6	5
90	Novel syntheses of modified black TiO2/C3N4 and their efficient behavior toward water splitting under neutral conditions. Journal of Environmental Chemical Engineering, 2022, 10, 107418.	3.3	5

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91	Use of iodide and silver/sulfide ion-selective electrodes for the determination of some tertiary amines and alkaloids. Fresenius Zeitschrift FÃ¼r Analytische Chemie, 1988, 330, 155-157.	0.7	4
92	Structural and acidic properties of cationic-exchanged Y and mordenite zeolites. Thermochimica Acta, 1993, 230, 167-175.	1.2	4
93	Redox behaviour of copper mordenite zeolite. Journal of Materials Science, 1995, 30, 4834-4838.	1.7	4
94	Synergistic catalysis effect in pentanol conversion into di-n-pentyl ether on ZSM-5 supported titania catalysts synthesized by solâ€“gel. Materials Chemistry and Physics, 2009, 115, 209-216.	2.0	4
95	Influence of iron ion additions on the thermal decomposition of basic zinc carbonate. Journal of Thermal Analysis, 1990, 36, 1331-1345.	0.7	3
96	Application of silver/sulfide ion-selective electrode for the determination of aliphatic primary and secondary amines. Mikrochimica Acta, 1989, 97, 221-227.	2.5	2
97	Application of breakthrough curves to investigate the chemisorption of carbon monoxide and hydrogen gases on platinum/silica catalysts. Powder Technology, 1996, 86, 239-242.	2.1	2
98	Adsorption of cetyltrimethylammonium bromide on parent and molybdenum-modified silica gels in the solid state. Thermochimica Acta, 1993, 217, 91-98.	1.2	1
99	Removal of Phenol from Olive Industry Liquid Waste Using Polyitaconic Acid. Asian Journal of Chemistry, 2014, 26, S15-S22.	0.1	1
100	Nonplatinum-based anode catalyst systems for direct methanol fuel cells. , 2020, , 201-256.		1
101	Photocatalytic Bacterial Disinfection using Ago/Ag+1 Immobilized on CNT Modified TiO2 Nanomaterials. Journal of Pure and Applied Microbiology, 2019, 13, 767-778.	0.3	1
102	3D Monte Carlo simulation of current trends and performance inÂscaled trigate MOSFET. Journal of Computational Electronics, 2008, 7, 217-221.	1.3	0
103	Sonochemically Assisted Ni-Ce Oxide Catalyst for Gasification of Coconut Shell. Asian Journal of Chemistry, 2016, 28, 585-588.	0.1	0
104	One Pot Microwave Irradiation Synthesis of Spherical and Nanotube Titanates Incorporated Reduced Graphene for Efficient Hydrogen Production Photo-Electrocatalytically. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 289-296.	1.9	0