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	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
2	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
3	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
4	Enhanced degradation of benzo[a]pyrene and toxicity reduction by microbubble ozonation. Environmental Technology (United Kingdom), 2021, 42, 1853-1860.	1.2	19
5	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
6	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
7	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
8	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
9	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
10	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
11	Rapid reduction of nitroarenes photocatalyzed by an innovative Mn3O4/Î±-Ag2WO4 nanoparticles. Scientific Reports, 2020, 10, 21495.	1.6	13
12	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
13	Nonplatinum-based anode catalyst systems for direct methanol fuel cells. , 2020, , 201-256.		1
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	Structural, optical, dielectric and magnetic properties of Bi1â^'xLaxFeO3 nanoparticles. Journal of Magnetism and Magnetic Materials, 2018, 465, 309-315.	1.0	17
27	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
28	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
29	Mn₃O₄/graphene nanocomposites: outstanding performances as highly efficient photocatalysts and microwave absorbers. RSC Advances, 2017, 7, 826-839.	1.7	59
30	TiO2ZnO photocatalysts synthesized by solâ€“gel auto-ignition technique for hydrogen production. International Journal of Hydrogen Energy, 2017, 42, 5016-5025.	3.8	41
31	Ultrahigh antibacterial efficacy of meropenem-loaded chitosan nanoparticles in a septic animal model. Carbohydrate Polymers, 2017, 174, 1041-1050.	5.1	49
32	Surfactant-assisted formation of silver titanates as active catalysts for methanol electro-oxidation. Applied Catalysis A: General, 2017, 547, 205-213.	2.2	14
33	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
34	Sonochemically Assisted Ni-Ce Oxide Catalyst for Gasification of Coconut Shell. Asian Journal of Chemistry, 2016, 28, 585-588.	0.1	0
35	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
36	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

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37	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
38	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
39	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
40	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
41	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
42	Removal of Phenol from Olive Industry Liquid Waste Using Polyitaconic Acid. Asian Journal of Chemistry, 2014, 26, S15-S22.	0.1	1
43	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
44	Carbon nanotube/titanium nanotube composites loaded platinum nanoparticles as high performance photocatalysts. Applied Catalysis A: General, 2014, 475, 90-97.	2.2	32
45	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
46	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
47	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
48	Preparation and characterization of nano-silver/mesoporous titania photocatalysts for herbicide degradation. Microporous and Mesoporous Materials, 2011, 142, 130-138.	2.2	49
49	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
50	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
51	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
52	3D Monte Carlo simulation of current trends and performance inÂscaled trigate MOSFET. Journal of Computational Electronics, 2008, 7, 217-221.	1.3	0
53	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
54	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

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55	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
56	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
57	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
58	CO/Water and UVâˆ'vis Assisted Assembly of Nanostructured Platinum Wires in Mesoporous Silica. Journal of Physical Chemistry C, 2008, 112, 8890-8897.	1.5	5
59	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
60	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
61	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
62	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
63	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
64	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
65	Ce-containing Mordenites: Synthesis, structure and reactivity towards NO and CO gases. Microporous and Mesoporous Materials, 2006, 93, 71-81.	2.2	8
66	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
67	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
68	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
69	Synthesis of high silica mordenite nanocrystals using o-phenylenediamine template. Microporous and Mesoporous Materials, 2005, 84, 84-96.	2.2	42
70	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
71	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
72	Structural and catalytic characteristics of MoO3/CeO2 catalysts: CO oxidation activity. Applied Catalysis A: General, 2005, 287, 236-243.	2.2	38

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73	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
74	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
75	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
76	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
77	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
78	Ceria-modified zirconia and their effects on the molybdenum oxide dispersion. Materials Chemistry and Physics, 2003, 77, 704-710.	2.0	8
79	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
80	Structural and acidic characteristics of Cuâ€“Ni-modified acid-leached mordenites. Journal of Colloid and Interface Science, 2003, 265, 106-114.	5.0	14
81	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
82	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
83	Effect of Mordenite Dealumination on the Structure of Encapsulated Molybdenum Catalysts. Journal of Colloid and Interface Science, 2002, 249, 104-112.	5.0	14
84	Synthesis, characterization and catalytic properties of titaniaâ€“silica catalysts. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 207, 25-32.	2.3	71
85	Characterization of Gold(I) in Dealuminated H-Mordenite Zeolite. Langmuir, 2001, 17, 5678-5684.	1.6	36
86	Heat capacities, phase transitions and structural properties of cation-exchanged H-mordenite zeolites. Thermochimica Acta, 2001, 372, 75-83.	1.2	19
87	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
88	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
89	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
90	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

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91	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
92	Redox behaviour of copper mordenite zeolite. Journal of Materials Science, 1995, 30, 4834-4838.	1.7	4
93	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
94	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
95	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
96	Structural and acidic properties of cationic-exchanged Y and mordenite zeolites. Thermochimica Acta, 1993, 230, 167-175.	1.2	4
97	Adsorption of cetyltrimethylammonium bromide on parent and molybdenum-modified silica gels in the solid state. Thermochimica Acta, 1993, 217, 91-98.	1.2	1
98	Spectrophotometric determination of trace amounts of molybdenum using morin and cetylpyridinium chloride. Fresenius' Journal of Analytical Chemistry, 1991, 339, 197-198.	1.5	13
99	Influence of iron ion additions on the thermal decomposition of basic zinc carbonate. Journal of Thermal Analysis, 1990, 36, 1331-1345.	0.7	3
100	Spectrophotometric determination of molybdenum with 7,8-dihydroxy-4-methylcoumarin and cetyltrimethylammonium bromide. Talanta, 1990, 37, 1091-1095.	2.9	12
101	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
102	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
103	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
104	Application of rhodanine, fluorene and semicarbazide hydrochloride as new spectrophotometric reagents for quinones. Mikrochimica Acta, 1986, 90, 321-328.	2.5	6