

Awad I Ahmed

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,540
citations

236833

25
h-index

315616

38
g-index

50
all docs

50
docs citations

50
times ranked

993
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface characterization and catalytic activity of sulfated tin oxide catalyst. <i>Catalysis Communications</i> , 2008, 9, 769-777.	1.6	128
2	Structural, photocatalytic, biological and catalytic properties of SnO ₂ /TiO ₂ nanoparticles. <i>Ceramics International</i> , 2018, 44, 6201-6211.	2.3	84
3	Selective nitration of phenol over nanosized tungsten oxide supported on sulfated SnO ₂ as a solid acid catalyst. <i>Applied Catalysis A: General</i> , 2009, 354, 153-160.	2.2	83
4	Highly efficient sunlight-driven photocatalytic degradation of malachite green dye over reduced graphene oxide-supported CuS nanoparticles. <i>Journal of Alloys and Compounds</i> , 2020, 849, 156573.	2.8	76
5	Photocatalytic activity of mesoporous WO ₃ /TiO ₂ nanocomposites for the photodegradation of methylene blue. <i>Inorganic Chemistry Communication</i> , 2019, 105, 102-111.	1.8	71
6	Nanostructure sulfated tin oxide as an efficient catalyst for the preparation of 7-hydroxy-4-methyl coumarin by Pechmann condensation reaction. <i>Journal of Molecular Catalysis A</i> , 2013, 366, 99-108.	4.8	68
7	Structural characterization and catalytic activity of molybdenum oxide supported zirconia catalysts. <i>Microporous and Mesoporous Materials</i> , 2007, 102, 128-137.	2.2	63
8	Application of nanostructured mesoporous silica/ bismuth vanadate composite catalysts for the degradation of methylene blue and brilliant green. <i>Journal of Materials Research and Technology</i> , 2022, 18, 1963-1976.	2.6	58
9	Facile fabrication of bimetallic Fe-Mg MOF for the synthesis of xanthenes and removal of heavy metal ions. <i>RSC Advances</i> , 2020, 10, 9693-9703.	1.7	52
10	Synthesis of sulfamic acid supported on Cr-MIL-101 as a heterogeneous acid catalyst and efficient adsorbent for methyl orange dye. <i>RSC Advances</i> , 2018, 8, 20517-20533.	1.7	51
11	Novel bimetallic Ag-Fe MOF for exceptional Cd and Cu removal and 3,4-dihydropyrimidinone synthesis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 114, 199-210.	2.7	51
12	Synthesis of 12-tungstophosphoric acid supported on Zr/MCM-41 composite with excellent heterogeneous catalyst and promising adsorbent of methylene blue. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 631, 127753.	2.3	49
13	Greener route for the removal of toxic heavy metals and synthesis of 14-aryl-14H dibenzo[a,j] xanthene using a novel and efficient Ag-Mg bimetallic MOF as a recyclable heterogeneous nanocatalyst. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 122, 176-189.	2.7	46
14	Synthesis of sulfated zirconium supported MCM-41 composite with high-rate adsorption of methylene blue and excellent heterogeneous catalyst. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 616, 126361.	2.3	45
15	Preparation and characterization of SnO ₂ doped TiO ₂ nanoparticles: Effect of phase changes on the photocatalytic and catalytic activity. <i>Journal of Science: Advanced Materials and Devices</i> , 2019, 4, 400-412.	1.5	44
16	Surface acidity, catalytic and photocatalytic activities of new type H ₃ PW ₁₂ O ₄₀ /Sn-TiO ₂ nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 577, 147-157.	2.3	44
17	Monometallic and bimetallic Cu-Mg MOF/MCM-41 composites: structural characterization and catalytic activity. <i>RSC Advances</i> , 2019, 9, 18803-18813.	1.7	42
18	The role of PMA in enhancing the surface acidity and catalytic activity of a bimetallic Cr-Mg-MOF and its applications for synthesis of coumarin and dihydropyrimidinone derivatives. <i>RSC Advances</i> , 2020, 10, 21115-21128.	1.7	40

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19	Sulfamic acid incorporated HKUST-1: a highly active catalyst and efficient adsorbent. RSC Advances, 2020, 10, 15586-15597.	1.7	40
20	High efficiency solar desalination and dye retention of plasmonic/reduced graphene oxide based copper oxide nanocomposites. RSC Advances, 2021, 11, 15184-15194.	1.7	39
21	Urchin-like CuS nanostructures: simple synthesis and structural optimization with enhanced photocatalytic activity under direct sunlight. Applied Nanoscience (Switzerland), 2020, 10, 2153-2164.	1.6	38
22	Surface and acidic properties of some mixed oxide catalysts in relation to their catalytic activities. Materials Letters, 1990, 10, 175-180.	1.3	36
23	Synthesis and characterization of new solid acid catalysts, H3PW12O40 supported on nanoparticle tin oxide: An efficient catalyst for the preparation of 7-hydroxy-4-methylcoumarin. Applied Catalysis A: General, 2011, 407, 40-48.	2.2	36
24	Characterization of 12-molybdophosphoric acid supported on mesoporous silica MCM-41 and its catalytic performance in the synthesis of hydroquinone diacetate. Applied Surface Science, 2013, 282, 217-225.	3.1	34
25	Flexible CuO-rGO/ PANI thermal absorber with high broadband photoresponse and salt resistance for efficient desalination of oil-contaminated seawater. Desalination, 2022, 528, 115612.	4.0	33
26	Low Temperature CO Oxidation Over Highly Active Gold Nanoparticles Supported on Reduced Graphene Oxide@Mg-BTC Nanocomposite. Catalysis Letters, 2023, 153, 876-886.	1.4	24
27	Fe/Co-MOF Nanocatalysts: Greener Chemistry Approach for the Removal of Toxic Metals and Catalytic Applications. ACS Omega, 2022, 7, 23421-23444.	1.6	19
28	Ag-PMA supported on MCM-41: Surface Acidity and Catalytic Activity. Journal of Sol-Gel Science and Technology, 2022, 102, 387-399.	1.1	18
29	Highly efficient, recyclable cerium-phosphate solid acid catalysts for the synthesis of tetrahydrocarbazole derivatives by Borsche's Drechsel cyclization. Reaction Kinetics, Mechanisms and Catalysis, 2021, 134, 143-161.	0.8	16
30	High-Efficacy Hierarchical Dy ₂ O ₃ /TiO ₂ Nanoflower toward Wastewater Reclamation: A Combined Photoelectrochemical and Photocatalytic Strategy. ACS Omega, 2022, 7, 17223-17233.	1.6	13
31	Green construction of eco-friendly phosphotungstic acid Sr-MOF catalysts for crystal violet removal and synthesis of coumarin and xanthene compounds. RSC Advances, 2021, 11, 37276-37289.	1.7	12
32	Fast and simple fabrication of reduced graphene oxide-zinc tungstate nanocomposite with enhanced photoresponse properties as a highly efficient indirect sunlight driven photocatalyst and antibacterial agent. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 429, 113907.	2.0	12
33	Phosphotungstic acid supported mesoporous MCM-41 coated NiFe ₂ O ₄ magnetic nanoparticles as highly effective green nanocatalysts for coumarin and xanthene synthesis. Journal of Sol-Gel Science and Technology, 2021, 99, 140-157.	1.1	8
34	Effect of thermal treatment on the surface characteristics of magnesia-chromia catalysts. Surface Technology, 1984, 21, 255-261.	0.4	7
35	Textural, Structural and Catalytic Properties of Cr ₂ O ₃ /SiO ₂ Catalysts. Adsorption Science and Technology, 1998, 16, 175-191.	1.5	7
36	Catalytic Reactions of 1-Butanol over AlPO ₄ Catalysts Induced by B ₂ O ₃ . Adsorption Science and Technology, 2003, 21, 863-882.	1.5	7

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37	Fluorine-doped tin oxide as efficient solid acid catalyst: acidity and the catalytic activity relationship. Journal of Sol-Gel Science and Technology, 2021, 97, 191-204.	1.1	7
38	Inhibition of the acid corrosion of zinc by some thiourea derivatives. Anti-Corrosion Methods and Materials, 1989, 36, 4-7.	0.6	5
39	Effects of K ₂ O–Li ₂ O doping on surface and catalytic properties of Fe ₂ O ₃ /Cr ₂ O ₃ system. Journal of Alloys and Compounds, 2011, 509, 1314-1321.	2.8	5
40	Impact of graphene/graphene oxide on the mechanical properties of cellulose acetate membrane and promising natural seawater desalination. Journal of Polymer Engineering, 2019, 39, 794-804.	0.6	5
41	Studies of dehydrogenating catalysts I: Structural and textural properties of some dehydrogenating catalysts. Surface Technology, 1981, 14, 143-153.	0.4	4
42	Inhibition of the acid corrosion of aluminium with some morpholine and thiosemicarbazide derivatives. Anti-Corrosion Methods and Materials, 1988, 35, 4-8.	0.6	4
43	Some Surface and Catalytic Properties of V ₂ O ₅ –Cr ₂ O ₃ /SiO ₂ , MoO ₃ –Cr ₂ O ₃ /SiO ₂ and NiO–Cr ₂ O ₃ /SiO ₂ Ternary Solid Catalysts. Adsorption Science and Technology, 2000, 18, 777-798.	1.5	4
44	Structural and surface properties of nickel oxide. Surface Technology, 1984, 23, 323-331.	0.4	3
45	Structural changes and surface properties of thermally treated pure and doped cobalt oxide. Surface Technology, 1985, 26, 225-234.	0.4	3
46	Sulfamic acid incorporated tin oxide: Acidity and activity relationship. Journal of Alloys and Compounds, 2021, 858, 158192.	2.8	3
47	Effects of thermal treatment and fluoride ion doping on surface and catalytic properties of NiO–ZrO ₂ catalysts. Materials Science-Poland, 2016, 34, 53-62.	0.4	2
48	Structure, Texture and Catalytic Properties of Pd/SiO ₂ Catalysts. Adsorption Science and Technology, 1996, 13, 423-431.	1.5	1
49	Effect of gamma irradiation on the texture, acidity and catalytic activity of silica-aluminium and silica-magnesia catalysts. International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements, 1991, 38, 313-316.	0.0	0