

Mark A Isaacs

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2555161/publications.pdf>

Version: 2024-02-01

95
papers

5,241
citations

94433

37
h-index

88630

70
g-index

99
all docs

99
docs citations

99
times ranked

7561
citing authors

#	ARTICLE	IF	CITATIONS
1	Ag Alloyed Pd Single-Atom Catalysts for Efficient Selective Hydrogenation of Acetylene to Ethylene in Excess Ethylene. <i>ACS Catalysis</i> , 2015, 5, 3717-3725.	11.2	545
2	Atomically dispersed nickel as coke-resistant active sites for methane dry reforming. <i>Nature Communications</i> , 2019, 10, 5181.	12.8	398
3	Classical strong metal-support interactions between gold nanoparticles and titanium dioxide. <i>Science Advances</i> , 2017, 3, e1700231.	10.3	361
4	Cobalt promoted TiO ₂ /GO for the photocatalytic degradation of oxytetracycline and Congo Red. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 159-168.	20.2	298
5	Highly selective hydrogenation of furfural over supported Pt nanoparticles under mild conditions. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 580-585.	20.2	288
6	P25@CoAl layered double hydroxide heterojunction nanocomposites for CO ₂ photocatalytic reduction. <i>Applied Catalysis B: Environmental</i> , 2017, 209, 394-404.	20.2	200
7	Facile synthesis of hierarchical Cu ₂ O nanocubes as visible light photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 189, 226-232.	20.2	132
8	Solid base catalysed 5-HMF oxidation to 2,5-FDCA over Au/hydrothermalites: fact or fiction?. <i>Chemical Science</i> , 2015, 6, 4940-4945.	7.4	125
9	Cu and Fe oxides dispersed on SBA-15: A Fenton type bimetallic catalyst for N,N -diethyl- p -phenyl diamine degradation. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 323-330.	20.2	119
10	Effect of Cu and Sn promotion on the catalytic deoxygenation of model and algal lipids to fuel-like hydrocarbons over supported Ni catalysts. <i>Applied Catalysis B: Environmental</i> , 2016, 191, 147-156.	20.2	102
11	Selectivity control in Pt-catalyzed cinnamaldehyde hydrogenation. <i>Scientific Reports</i> , 2015, 5, 9425.	3.3	101
12	Spatially orthogonal chemical functionalization of a hierarchical pore network for catalytic cascade reactions. <i>Nature Materials</i> , 2016, 15, 178-182.	27.5	101
13	Platinum-Catalyzed Aqueous-Phase Hydrogenation of D-Glucose to D-Sorbitol. <i>ACS Catalysis</i> , 2016, 6, 7409-7417.	11.2	94
14	Highly Selective and Solvent-Dependent Reduction of Nitrobenzene to N-Phenylhydroxylamine, Azoxybenzene, and Aniline Catalyzed by Phosphino-Modified Polymer Immobilized Ionic Liquid-Stabilized AuNPs. <i>ACS Catalysis</i> , 2019, 9, 4777-4791.	11.2	77
15	Single atom Cu(I) promoted mesoporous titanias for photocatalytic Methyl Orange depollution and H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 501-511.	20.2	75
16	A spatially orthogonal hierarchically porous acid-base catalyst for cascade and antagonistic reactions. <i>Nature Catalysis</i> , 2020, 3, 921-931.	34.4	75
17	All-Inorganic CsPbBr ₃ Nanocrystals: Gram-Scale Mechanochemical Synthesis and Selective Photocatalytic CO ₂ Reduction to Methane. <i>ACS Applied Energy Materials</i> , 2020, 3, 4509-4522.	5.1	75
18	Support enhanced α -pinene isomerization over HPW/SBA-15. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 10-18.	20.2	72

#	ARTICLE	IF	CITATIONS
19	Porous Dithiine-Linked Covalent Organic Framework as a Dynamic Platform for Covalent Polysulfide Anchoring in Lithium-Sulfur Battery Cathodes. <i>Journal of the American Chemical Society</i> , 2022, 144, 9101-9112.	13.7	71
20	Mechanochemically synthesized Pb-free halide perovskite-based Cs ₂ AgBiBr ₆ -Cu-RGO nanocomposite for photocatalytic CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12179-12187.	10.3	70
21	Mesoporous NiO/Al-SBA-15 catalysts for solvent-free deoxygenation of palm fatty acid distillate. <i>Microporous and Mesoporous Materials</i> , 2019, 276, 13-22.	4.4	68
22	Bandgap lowering in mixed alloys of Cs ₂ Ag(Sb _x Bi _{1-x})Br ₆ double perovskite thin films. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21780-21788.	10.3	66
23	Photodeposition as a facile route to tunable Pt photocatalysts for hydrogen production: on the role of methanol. <i>Catalysis Science and Technology</i> , 2016, 6, 81-88.	4.1	65
24	Gold-catalyzed conversion of lignin to low molecular weight aromatics. <i>Chemical Science</i> , 2018, 9, 8127-8133.	7.4	61
25	Unravelling mass transport in hierarchically porous catalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11814-11825.	10.3	57
26	Hydrogen evolution enhancement of ultra-low loading, size-selected molybdenum sulfide nanoclusters by sulfur enrichment. <i>Applied Catalysis B: Environmental</i> , 2018, 235, 84-91.	20.2	56
27	PdCu single atom alloys supported on alumina for the selective hydrogenation of furfural. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120652.	20.2	53
28	Paternal low protein diet programs preimplantation embryo gene expression, fetal growth and skeletal development in mice. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1371-1381.	3.8	51
29	Tailored mesoporous silica supports for Ni catalysed hydrogen production from ethanol steam reforming. <i>Catalysis Communications</i> , 2017, 91, 76-79.	3.3	51
30	On the influence of Si:Al ratio and hierarchical porosity of FAU zeolites in solid acid catalysed esterification pretreatment of bio-oil. <i>Biomass Conversion and Biorefinery</i> , 2017, 7, 331-342.	4.6	50
31	Acetic Acid Ketonization over Fe ₃ O ₄ /SiO ₂ for Pyrolysis Bio-Oil Upgrading. <i>ChemCatChem</i> , 2017, 9, 1648-1654.	3.7	47
32	The effect of metal precursor on copper phase dispersion and nanoparticle formation for the catalytic transformations of furfural. <i>Applied Catalysis B: Environmental</i> , 2020, 273, 119062.	20.2	46
33	Optimization of ruthenium based catalysts for the aqueous phase hydrogenation of furfural to furfuryl alcohol. <i>Applied Catalysis A: General</i> , 2018, 563, 177-184.	4.3	45
34	Size-Dependent Visible Light Photocatalytic Performance of Cu ₂ O Nanocubes. <i>ChemCatChem</i> , 2018, 10, 3554-3563.	3.7	44
35	A magnetically-separable H ₃ PW ₁₂ O ₄₀ @Fe ₃ O ₄ /EN-MIL-101 catalyst for the one-pot solventless synthesis of 2H-indazolo[2,1-b]phthalazine-triones. <i>Molecular Catalysis</i> , 2017, 440, 96-106.	2.0	42
36	Acidity-Reactivity Relationships in Catalytic Esterification over Ammonium Sulfate-Derived Sulfated Zirconia. <i>Catalysts</i> , 2017, 7, 204.	3.5	41

#	ARTICLE	IF	CITATIONS
37	Advanced XPS characterization: XPS-based multi-technique analyses for comprehensive understanding of functional materials. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7931-7963.	5.9	41
38	The surface chemistry of nanocrystalline MgO catalysts for FAME production: An in situ XPS study of H ₂ O, CH ₃ OH and CH ₃ OAc adsorption. <i>Surface Science</i> , 2016, 646, 170-178.	1.9	40
39	Delaminated CoAl ₂ O ₄ /Layered Double Hydroxide@TiO ₂ Heterojunction Nanocomposites for Photocatalytic Reduction of CO ₂ . <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700317.	2.3	40
40	Regioselective Baeyer-Villiger oxidation of lignin model compounds with tin beta zeolite catalyst and hydrogen peroxide. <i>RSC Advances</i> , 2017, 7, 25987-25997.	3.6	35
41	MoS ₂ and WS ₂ nanocone arrays: Impact of surface topography on the hydrogen evolution electrocatalytic activity and mass transport. <i>Applied Materials Today</i> , 2018, 11, 70-81.	4.3	33
42	Integrated carbon capture and utilization: Synergistic catalysis between highly dispersed Ni clusters and ceria oxygen vacancies. <i>Chemical Engineering Journal</i> , 2022, 437, 135394.	12.7	33
43	On the Mn promoted synthesis of higher alcohols over Cu derived ternary catalysts. <i>Catalysis Science and Technology</i> , 2017, 7, 988-999.	4.1	31
44	Development and Characterization of Gallium-Doped Bioactive Glasses for Potential Bone Cancer Applications. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3425-3432.	5.2	31
45	Zirconia catalysed acetic acid ketonisation for pre-treatment of biomass fast pyrolysis vapours. <i>Catalysis Science and Technology</i> , 2018, 8, 1134-1141.	4.1	31
46	Development of Ca/KIT-6 adsorbents for high temperature CO ₂ capture. <i>Fuel</i> , 2019, 235, 1070-1076.	6.4	31
47	Metal-Acid Synergy: Hydrodeoxygenation of Anisole over Pt/Al ₂ O ₃ . <i>ChemSusChem</i> , 2020, 13, 4945-4953.	6.8	31
48	Facile route to conformal hydrotalcite coatings over complex architectures: a hierarchically ordered nanoporous base catalyst for FAME production. <i>Green Chemistry</i> , 2015, 17, 2398-2405.	9.0	30
49	Ru nanoparticles supported on N-doped reduced graphene oxide as valuable catalyst for the selective aerobic oxidation of benzyl alcohol. <i>Catalysis Today</i> , 2020, 357, 8-14.	4.4	30
50	Niobic acid nanoparticle catalysts for the aqueous phase transformation of glucose and fructose to 5-hydroxymethylfurfural. <i>Catalysis Science and Technology</i> , 2016, 6, 7334-7341.	4.1	29
51	High activity magnetic core-mesoporous shell sulfonic acid silica nanoparticles for carboxylic acid esterification. <i>Catalysis Communications</i> , 2017, 92, 56-60.	3.3	29
52	The origin of chemical inhomogeneity in garnet electrolytes and its impact on the electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14265-14276.	10.3	26
53	Bio-inspired carbon electro-catalysts for the oxygen reduction reaction. <i>Journal of Energy Chemistry</i> , 2016, 25, 228-235.	12.9	25
54	Sulfated Zirconia Catalysts for D-Sorbitol Cascade Cyclodehydration to Isosorbide: Impact of Zirconia Phase. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14704-14712.	6.7	25

#	ARTICLE	IF	CITATIONS
55	Impact of Macroporosity on Catalytic Upgrading of Fast Pyrolysis Bio-Oil by Esterification over Silica Sulfonic Acids. <i>ChemSusChem</i> , 2017, 10, 3506-3511.	6.8	24
56	H5PW10V2O40@VOx/SBA-15-NH2 catalyst for the solventless synthesis of 3-substituted indoles. <i>Tetrahedron</i> , 2017, 73, 5862-5871.	1.9	23
57	Active Site Elucidation and Optimization in Pt Co-catalysts for Photocatalytic Hydrogen Production over Titania. <i>ChemCatChem</i> , 2017, 9, 4268-4274.	3.7	21
58	Shining light on the solid-liquid interface: <i>in situ</i> / <i>operando</i> monitoring of surface catalysis. <i>Catalysis Science and Technology</i> , 2020, 10, 5362-5385.	4.1	21
59	Cascade Aerobic Selective Oxidation over Contiguous Dual-Catalyst Beds in Continuous Flow. <i>ACS Catalysis</i> , 2019, 9, 5345-5352.	11.2	20
60	Pore confinement effects and stabilization of carbon nitride oligomers in macroporous silica for photocatalytic hydrogen production. <i>Carbon</i> , 2016, 106, 320-329.	10.3	19
61	Electrochemical sulfidation of WS ₂ nanoarrays: Strong dependence of hydrogen evolution activity on transition metal sulfide surface composition. <i>Electrochemistry Communications</i> , 2017, 81, 106-111.	4.7	18
62	Platinum catalysed aerobic selective oxidation of cinnamaldehyde to cinnamic acid. <i>Catalysis Today</i> , 2019, 333, 161-168.	4.4	18
63	A new application for transition metal chalcogenides: WS ₂ catalysed esterification of carboxylic acids. <i>Catalysis Communications</i> , 2017, 91, 16-20.	3.3	17
64	The antimicrobial efficacy of zinc doped phosphate-based glass for treating catheter associated urinary tract infections. <i>Materials Science and Engineering C</i> , 2019, 103, 109868.	7.3	16
65	Effect of Pt Promotion on the Ni-Catalyzed Deoxygenation of Tristearin to Fuel-Like Hydrocarbons. <i>Catalysts</i> , 2019, 9, 200.	3.5	16
66	The Antimicrobial Efficacy of Hypoxia Mimicking Cobalt Oxide Doped Phosphate-Based Glasses against Clinically Relevant Gram Positive, Gram Negative Bacteria and a Fungal Strain. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 283-293.	5.2	16
67	Magnetically-separable Fe ₃ O ₄ @SiO ₂ @SO ₄ -ZrO ₂ core-shell nanoparticle catalysts for propanoic acid esterification. <i>Molecular Catalysis</i> , 2018, 449, 137-141.	2.0	15
68	Bio-oil upgrading via vapor-phase ketonization over nanostructured FeOx and MnOx: catalytic performance and mechanistic insight. <i>Biomass Conversion and Biorefinery</i> , 2017, 7, 319-329.	4.6	14
69	Boosting the oxygen evolution activity in non-stoichiometric praseodymium ferrite-based perovskites by A site substitution for alkaline electrolyser anodes. <i>Sustainable Energy and Fuels</i> , 2021, 5, 154-165.	4.9	14
70	Dual Wavelength (Ultraviolet and Green) Photodetectors Using Solution Processed Zinc Oxide Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36971-36979.	8.0	13
71	Carbon Nitride as a Ligand: Selective Hydrogenation of Terminal Alkenes Using [(⁵ Ir(⁵ C ₅ Me ₅) ₂) ₂ IrCl(³ N ₄ C ²)]Cl. <i>Chemistry - A European Journal</i> , 2020, 26, 6862-6868.	1.8	12
72	NiO/nanoporous carbon heterogeneous Fenton catalyst for aqueous microcystine-LR decomposition. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 74, 289-295.	5.3	11

#	ARTICLE	IF	CITATIONS
73	Citrate-mediated sol-gel synthesis of Al-substituted sulfated zirconia catalysts for α -pinene isomerization. <i>Molecular Catalysis</i> , 2018, 458, 206-212.	2.0	11
74	Tunable Ag@SiO ₂ core-shell nanocomposites for broad spectrum antibacterial applications. <i>RSC Advances</i> , 2017, 7, 23342-23347.	3.6	10
75	On the Impact of the Preparation Method on the Surface Basicity of Mg-Zr Mixed Oxide Catalysts for Tributyrin Transesterification. <i>Catalysts</i> , 2018, 8, 228.	3.5	10
76	Carbon nitride as a ligand: edge-site coordination of ReCl(CO) ₃ -fragments to g-C ₃ N ₄ . <i>Chemical Communications</i> , 2019, 55, 7450-7453.	4.1	10
77	Synergistic Effect of Simultaneous Doping of Ceria Nanorods with Cu and Cr on CO Oxidation and NO Reduction. <i>Chemistry - A European Journal</i> , 2021, 27, 2165-2174.	3.3	10
78	Alkali-Free Zn-Al Layered Double Hydroxide Catalysts for Triglyceride Transesterification. <i>Catalysts</i> , 2018, 8, 667.	3.5	9
79	Ethanol Steam Reforming for Hydrogen Production Over Hierarchical Macroporous Mesoporous SBA-15 Supported Nickel Nanoparticles. <i>Topics in Catalysis</i> , 2020, 63, 403-412.	2.8	9
80	Degradation of Layered Oxide Cathode in a Sodium Battery: A Detailed Investigation by X-Ray Tomography at the Nanoscale. <i>Small Methods</i> , 2021, 5, e2100596.	8.6	9
81	Tunable Silver-Functionalized Porous Frameworks for Antibacterial Applications. <i>Antibiotics</i> , 2018, 7, 55.	3.7	7
82	A porous activated carbon supported Pt catalyst for the oxidative degradation of poly[(naphthaleneformaldehyde)sulfonate]. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 93, 289-297.	5.3	7
83	Synthesis of Amine Functionalized Mesoporous Silicas Templated by Castor Oil for Transesterification. <i>MRS Advances</i> , 2018, 3, 2261-2269.	0.9	6
84	In vitro evaluation of the response of human tendon-derived stromal cells to a novel electrospun suture for tendon repair. <i>Translational Sports Medicine</i> , 2021, 4, 409-418.	1.1	6
85	Continuous-flow synthesis of mesoporous SBA-15. <i>Microporous and Mesoporous Materials</i> , 2022, 329, 111535.	4.4	6
86	Electrocatalytic regeneration of atmospherically aged MoS ₂ nanostructures via solution-phase sulfidation. <i>RSC Advances</i> , 2016, 6, 26689-26695.	3.6	5
87	Solution-processable, niobium-doped titanium oxide nanorods for application in low-voltage, large-area electronic devices. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1038-1047.	5.5	5
88	Enhanced near-infrared absorption for laser powder bed fusion using reduced graphene oxide. <i>Applied Materials Today</i> , 2021, 23, 101009.	4.3	4
89	Insight into the atomic scale structure of CaF ₂ -CaO-SiO ₂ glasses using a combination of neutron diffraction, ²⁹ Si solid state NMR, high energy X-ray diffraction, FTIR, and XPS. <i>Biomedical Glasses</i> , 2019, 5, 112-123.	2.4	4
90	Multi-Dimensional Multi-Functional Catalytic Architecture: A Selectively Functionalized Three-Dimensional Hierarchically Ordered Macro/Mesoporous Network for Cascade Reactions Analyzed by Electron Tomography. <i>Microscopy and Microanalysis</i> , 2017, 23, 2042-2043.	0.4	3

#	ARTICLE	IF	CITATIONS
91	Palladium-doped hierarchical ZSM-5 for catalytic selective oxidation of allylic and benzylic alcohols. Royal Society Open Science, 2021, 8, 211086.	2.4	2
92	Synthesis, characterisation, and feasibility studies on the use of vanadium tellurate(V_2TeO_7) as a cathode material for aqueous rechargeable Zn-ion batteries. RSC Advances, 2022, 12, 12211-12218.	3.6	2
93	Metal-Acid Synergy: Hydrodeoxygenation of Anisole over Pt/Al-SBA-15. ChemSusChem, 2020, 13, 4775-4778.	5.8	1
94	Band offsets of metal oxide contacts on TlBr radiation detectors. Journal of Applied Physics, 2021, 130, 175305.	2.5	0
95	P281 In vitro evaluation of the response of human tendon-derived stromal cells to a novel electrospun suture. Rheumatology, 2022, 61, .	1.9	0