

Mohammad Hayal Alotaibi

List of Publications by Citations

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60
papers

859
citations

17
h-index

28
g-index

73
ext. papers

1,094
ext. citations

3.4
avg, IF

4.45
L-index

#	Paper	IF	Citations
60	Atomic-level passivation mechanism of ammonium salts enabling highly efficient perovskite solar cells. <i>Nature Communications</i> , 2019 , 10, 3008	17.4	178
59	Atomic-Level Microstructure of Efficient Formamidinium-Based Perovskite Solar Cells Stabilized by 5-Ammonium Valeric Acid Iodide Revealed by Multinuclear and Two-Dimensional Solid-State NMR. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17659-17669	16.4	63
58	Influence of the Nature of A Cation on Dynamics of Charge Transfer Processes in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1706073	15.6	46
57	The Effect of Ultraviolet Irradiation on the Physicochemical Properties of Poly(vinyl Chloride) Films Containing Organotin(IV) Complexes as Photostabilizers. <i>Molecules</i> , 2018 , 23,	4.8	35
56	Poly(vinyl Chloride) Photostabilization in the Presence of Schiff Bases Containing a Thiadiazole Moiety. <i>Molecules</i> , 2018 , 23,	4.8	34
55	Unraveling the Impact of Rubidium Incorporation on the Transport-Recombination Mechanisms in Highly Efficient Perovskite Solar Cells by Small-Perturbation Techniques. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24903-24908	3.8	34
54	Fabrication of ordered honeycomb porous poly(vinyl chloride) thin film doped with a Schiff base and nickel(II) chloride. <i>Heliyon</i> , 2018 , 4, e00743	3.6	32
53	Long-Term Effect of Ultraviolet Irradiation on Poly(vinyl chloride) Films Containing Naproxen Diorganotin(IV) Complexes. <i>Molecules</i> , 2019 , 24,	4.8	28
52	The Morphology and Performance of Poly(Vinyl Chloride) Containing Melamine Schiff Bases against Ultraviolet Light. <i>Molecules</i> , 2019 , 24,	4.8	26
51	Photostabilization of Poly(vinyl chloride) by Organotin(IV) Compounds against Photodegradation. <i>Molecules</i> , 2019 , 24,	4.8	26
50	SEM analysis of the tunable honeycomb structure of irradiated poly(vinyl chloride) films doped with polyphosphate. <i>Heliyon</i> , 2018 , 4, e01013	3.6	25
49	Hydrogen production from formic acid decomposition in the liquid phase using Pd nanoparticles supported on CNFs with different surface properties. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2705-2716	5.8	24
48	Influence of Polyphosphates on the Physicochemical Properties of Poly (Vinyl Chloride) after Irradiation with Ultraviolet Light. <i>Polymers</i> , 2020 , 12,	4.5	23
47	Fabrication of Novel Ball-Like Polystyrene Films Containing Schiff Base Microspheres as Photostabilizers. <i>Polymers</i> , 2018 , 10,	4.5	23
46	Insights about the Absence of Rb Cation from the 3D Perovskite Lattice: Effect on the Structural, Morphological, and Photophysical Properties and Photovoltaic Performance. <i>Small</i> , 2018 , 14, e1802033	11	19
45	Evaluation of the use of polyphosphates as photostabilizers and in the formation of ball-like polystyrene materials. <i>Journal of Polymer Research</i> , 2019 , 26, 1	2.7	17
44	Highly regioselective dinitration of toluene over reusable zeolite H β . <i>Journal of Catalysis</i> , 2013 , 297, 244-247	7.3	17

43	Perovskite Solar Cells Yielding Reproducible Photovoltage of 1.20 V. <i>Research</i> , 2019 , 2019, 8474698	7.8	17
42	ZSM-5 Zeolite Based Additive in FCC Process: A Review on Modifications for Improving Propylene Production. <i>Catalysis Surveys From Asia</i> , 2020 , 24, 1-10	2.8	17
41	Synthesis of Telmisartan Organotin(IV) Complexes and their use as Carbon Dioxide Capture Media. <i>Molecules</i> , 2019 , 24,	4.8	16
40	SEM morphological analysis of irradiated polystyrene film doped by a Schiff base containing a 1,2,4-triazole ring system. <i>Applied Petrochemical Research</i> , 2019 , 9, 169-177	1.9	15
39	Formation of High-Performance Multi-Cation Halide Perovskites Photovoltaics by ECsPbI ₃ /ERbPbI ₃ Seed-Assisted Heterogeneous Nucleation. <i>Advanced Energy Materials</i> , 2021 , 11, 2003785	21.8	14
38	Catalytic activity of bimetallic AuPd alloys supported MgO and MnO ₂ nanostructures and their role in selective aerobic oxidation of alcohols. <i>Journal of King Saud University - Science</i> , 2017 , 29, 561-566	3.6	10
37	Thioxoquinazolines: synthesis, reactions and biological activities. <i>Journal of Sulfur Chemistry</i> , 2011 , 32, 361-395	2.3	10
36	Perovskite Solar Cells Yielding Reproducible Photovoltage of 1.20 V. <i>Research</i> , 2019 , 2019, 1-9	7.8	10
35	Benzylammonium-Mediated Formamidinium Lead Iodide Perovskite Phase Stabilization for Photovoltaics. <i>Advanced Functional Materials</i> , 2021 , 31, 2101163	15.6	10
34	Halide Versus Nonhalide Salts: The Effects of Guanidinium Salts on the Structural, Morphological, and Photovoltaic Performances of Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900234	7.1	10
33	Protection of Poly(Vinyl Chloride) Films against Photodegradation Using Various Valsartan Tin Complexes. <i>Polymers</i> , 2020 , 12,	4.5	9
32	Synthesis of New Symmetrical N, NTDiacylhydrazines and 2-(1,2,3-Triazol-4-yl)-1,3,4-oxadiazoles. <i>Letters in Organic Chemistry</i> , 2017 , 14,	0.6	9
31	Enhancement of Photostabilization of Poly(vinyl chloride) Doped with Sulfadiazine Tin Complexes. <i>Journal of Vinyl and Additive Technology</i> , 2020 , 26, 370-379	2	7
30	Bimetallic Au:Pd nanoparticle supported on MgO for the oxidation of benzyl alcohol. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019 , 128, 97-108	1.6	6
29	High Open Circuit Voltage for Perovskite Solar Cells with S,Si-Heteropentacene-Based Hole Conductors. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 4573-4578	2.3	6
28	Regioselective dinitration of simple aromatics over zeolite H ⁺ /nitric acid/acid anhydride systems. <i>Arkivoc</i> , 2014 , 2014, 107-123	0.9	4
27	Tin Complexes Containing an Atenolol Moiety as Photostabilizers for Poly(Vinyl Chloride). <i>Polymers</i> , 2020 , 12,	4.5	3
26	Valsartan metal complexes as capture and reversible storage media for methane. <i>Applied Petrochemical Research</i> , 2020 , 10, 77-82	1.9	3

25	4-(4-Bromophenyl)-2-(3-(4-chlorophenyl)-5-{3-[5-methyl-1-(4-methylphenyl)-1H-1,2,3-triazol-4-yl]-1-phenyl-1H-pyrazol-4-yl})-1-phenyl-1H-pyrazol-4-yl. <i>IUCrData</i> , 2018 , 3,	0.7	3
24	5-Methyl-1-(4-methylphenyl)-N-[1-(thiophen-2-yl)ethylidene]-1H-1,2,3-triazole-4-carbohydrazide. <i>IUCrData</i> , 2018 , 3,	0.7	3
23	Reactions of organolithium reagents with quinazoline derivatives. <i>Arkivoc</i> , 2013 , 2012, 35-78	0.9	3
22	Facile Synthesis and Characterization of Palladium@Carbon Catalyst for the Suzuki-Miyaura and Mizoroki-Heck Coupling Reactions. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4822	2.6	3
21	1-(2-Bromo-4-chloro-phen-yl)-3,3-di-methyl-thio-urea. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014 , 70, o704		2
20	5-Methyl-1-(4-methylphenyl)-N-[1-(1H-pyrrol-2-yl)ethylidene]-1H-1,2,3-triazole-4-carbohydrazide monohydrate. <i>IUCrData</i> , 2018 , 3,	0.7	2
19	Regioselective nitration of 2- and 4-nitrotoluenes over systems comprising nitric acid, an acid anhydride and a zeolite. <i>Arkivoc</i> , 2014 , 2014, 301-309	0.9	2
18	New Porous Silicon-Containing Organic Polymers: Synthesis and Carbon Dioxide Uptake. <i>Processes</i> , 2020 , 8, 1488	2.9	2
17	Synthesis and use of carvedilol metal complexes as carbon dioxide storage media. <i>Applied Petrochemical Research</i> , 2020 , 10, 157-164	1.9	2
16	Synthesis and Structure Elucidation of N-(4-Methoxybenzylidene)-5-methyl-1-phenyl-1H-1,2,3-triazole-4-carbohydrazide. <i>MolBank</i> , 2018 , 2018, M1034	0.5	2
15	Crystal structure of 3-(2-bromophenyl)-1,1-dimethylthiourea, C ₉ H ₁₁ BrN ₂ S. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2017 , 232, 31-32	0.2	1
14	Crystal structure of N-(1-(2-hydroxyphenyl)ethylidene)-5-methyl-1-phenyl-1H-1,2,3-triazole-4-carbohydrazide, C ₁₈ H ₁₇ N ₅ O ₂ . <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2019 , 234, 355-357	0.2	1
13	Crystal structure of 5-(5-(4-chlorophenyl)-1-phenyl-1H-pyrazol-3-yl)-N-phenyl-2-amine, C ₂₃ H ₁₆ ClN ₅ O. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2019 , 234, 543-545	0.2	1
12	(E)-3-(4-Fluorophenyl)-1-[1-(4-fluorophenyl)-5-methyl-1H-1,2,3-triazol-4-yl]prop-2-en-1-one. <i>IUCrData</i> , 2018 , 3,	0.7	1
11	N-[5-Acetyl-3-(4-chlorophenyl)-2,3-dihydro-1,3,4-thiadiazol-2-ylidene]-5-(1H-indol-3-yl)-1-phenyl-1H-pyrazole-3-carbohydrazide dimethylformamide monosolvate. <i>IUCrData</i> , 2019 , 4,	0.7	1
10	N-[5-Acetyl-3-(4-bromophenyl)-2,3-dihydro-1,3,4-thiadiazol-2-ylidene]-5-(1H-indol-3-yl)-1-phenyl-1H-pyrazole-3-carbohydrazide dimethylformamide monosolvate. <i>IUCrData</i> , 2019 , 4,	0.7	1
9	A Process for Hydrogen Production from the Catalytic Decomposition of Formic Acid over Iridium-Palladium Nanoparticles. <i>Materials</i> , 2021 , 14,	3.5	1
8	Crystal structure of (E)-3-(3-(5-methyl-1-4-tolyl-1H-1,2,3-triazol-4-yl)-1-phenyl-1H-pyrazol-4-yl)-1-(5-methyl-1-phenyl-1H-1,2,3-triazol-4-yl)prop-2-en-1-one. <i>Zeitschrift Fur Kristallographie - New Crystal Structures</i> , 2018 , 233, 647-648		

- 7 Crystal structure of 1,1-dimethyl-3-(2-phenylethyl)urea, C₁₁H₁₆N₂O. *Zeitschrift Fur Kristallographie - New Crystal Structures*, **2016**, 231, 1065-1066 0.2
- 6 The crystal structure of N-(7-(4-fluorobenzylidene)-3-(4-fluorophenyl)-3,3a,4,5,6,7-hexahydro-2H-indazole-2-carbonothioyl)benzamide, C₂₈H₂₃F₂N₃OS. *Zeitschrift Fur Kristallographie - New Crystal Structures*, **2019**, 234, 1083-1085
- 5 Convenient Synthesis of New Heterocycles Containing the Quinoxaline Ring System. *Letters in Organic Chemistry*, **2020**, 17, 121-126 0.6
- 4 5-Methyl-N?-[5-methyl-1-(4-methylphenyl)-1H-1,2,3-triazole-4-carbonyl]-1-(4-methylphenyl)-1H-1,2,3-triazole-4-carbohydrazide, C₂₂H₂₂N₈O₂. *Zeitschrift Fur Kristallographie - New Crystal Structures*, **2019**, 234, 1027-1029 0.2
- 3 7-(4-Fluorobenzylidene)-3-(4-fluorophenyl)-N-phenyl-3,3a,4,5,6,7-hexahydro-2H-indazole-2-carbothioamide dimethylformamide (2/1), C₂₇H₂₃F₂N₃S, 0.5(C₃H₇NO). *Zeitschrift Fur Kristallographie - New Crystal Structures*, **2019**, 234, 1141-1143 0.2
- 2 Crystal structure of N?-(1-(benzofuran-2-yl)ethylidene)-2-cyanoacetohydrazide, C₁₃H₁₁N₃O₂. *Zeitschrift Fur Kristallographie - New Crystal Structures*, **2019**, 234, 361-362 0.2
- 1 Crystal structure of (E)-N?-(4-methoxybenzylidene)-5-methyl-1-(4-tolyl)-1H-1,2,3-triazole-4-carbohydrazide, C₁₉H₁₉N₅O₂. *Zeitschrift Fur Kristallographie - New Crystal Structures*, **2018**, 233, 649-650 0.2