Mohammad Hayal Alotaibi

List of Publications by Year
in descending order

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72 papers	1,301 citations	304602 22 h-index	360920 35 g-index
73 all docs	73 docs citations	73 times ranked	1654 citing authors

#	Article	IF	Citations
1	Atomic-level passivation mechanism of ammonium salts enabling highly efficient perovskite solar cells. Nature Communications, 2019, 10, 3008.	5.8	268
2	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. Journal of the American Chemical Society, 2019, 141, 17659-17669.	6.6	104
3	Influence of the Nature of A Cation on Dynamics of Charge Transfer Processes in Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1706073.	7.8	58
4	The Effect of Ultraviolet Irradiation on the Physicochemical Properties of Poly(vinyl Chloride) Films Containing Organotin(IV) Complexes as Photostabilizers. Molecules, 2018, 23, 254.	1.7	45
5	Photostabilization of Poly(vinyl chloride) by Organotin(IV) Compounds against Photodegradation. Molecules, 2019, 24, 3557.	1.7	44
6	Long-Term Effect of Ultraviolet Irradiation on Poly(vinyl chloride) Films Containing Naproxen Diorganotin(IV) Complexes. Molecules, 2019, 24, 2396.	1.7	43
7	Unraveling the Impact of Rubidium Incorporation on the Transport-Recombination Mechanisms in Highly Efficient Perovskite Solar Cells by Small-Perturbation Techniques. Journal of Physical Chemistry C, 2017, 121, 24903-24908.	1.5	42
8	The Morphology and Performance of Poly(Vinyl Chloride) Containing Melamine Schiff Bases against Ultraviolet Light. Molecules, 2019, 24, 803.	1.7	41
9	Poly(vinyl Chloride) Photostabilization in the Presence of Schiff Bases Containing a Thiadiazole Moiety. Molecules, 2018, 23, 913.	1.7	40
10	Fabrication of ordered honeycomb porous poly(vinyl chloride) thin film doped with a Schiff base and nickel(II) chloride. Heliyon, 2018, 4, e00743.	1.4	40
11	Hydrogen production from formic acid decomposition in the liquid phase using Pd nanoparticles supported on CNFs with different surface properties. Sustainable Energy and Fuels, 2018, 2, 2705-2716.	2.5	37
12	ZSM-5 Zeolite Based Additive in FCC Process: A Review on Modifications for Improving Propylene Production. Catalysis Surveys From Asia, 2020, 24, 1-10.	1.0	37
13	Formation of Highâ€Performance Multiâ€Cation Halide Perovskites Photovoltaics by Î´â€²CsPbI₃/Î´â€²RbPbI₃ Seedâ€Assisted Heterogeneous Nucleation. Advanced Energy Materials, 2021, 11, 2003785.	10.2	32
14	Influence of Polyphosphates on the Physicochemical Properties of Poly (Vinyl Chloride) after Irradiation with Ultraviolet Light. Polymers, 2020, 12, 193.	2.0	31
15	SEM analysis of the tunable honeycomb structure of irradiated poly(vinyl chloride) films doped with polyphosphate. Heliyon, 2018, 4, e01013.	1.4	29
16	Benzylammoniumâ€Mediated Formamidinium Lead Iodide Perovskite Phase Stabilization for Photovoltaics. Advanced Functional Materials, 2021, 31, 2101163.	7.8	28
17	Fabrication of Novel Ball-Like Polystyrene Films Containing Schiff Base Microspheres as Photostabilizers. Polymers, 2018, 10, 1185.	2.0	27
18	Synthesis of Telmisartan Organotin(IV) Complexes and their use as Carbon Dioxide Capture Media. Molecules, 2019, 24, 1631.	1.7	26

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19	Insights about the Absence of Rb Cation from the 3D Perovskite Lattice: Effect on the Structural, Morphological, and Photophysical Properties and Photovoltaic Performance. Small, 2018, 14, e1802033.	5.2	24
20	Protection of Poly(Vinyl Chloride) Films against Photodegradation Using Various Valsartan Tin Complexes. Polymers, 2020, 12, 969.	2.0	24
21	Highly regioselective dinitration of toluene over reusable zeolite HÎ². Journal of Catalysis, 2013, 297, 244-247.	3.1	22
22	SEM morphological analysis of irradiated polystyrene film doped by a Schiff base containing a 1,2,4-triazole ring system. Applied Petrochemical Research, 2019, 9, 169-177.	1.3	22
23	Evaluation of the use of polyphosphates as photostabilizers and in the formation of ball-like polystyrene materials. Journal of Polymer Research, 2019, 26, 1.	1.2	22
24	Perovskite Solar Cells Yielding Reproducible Photovoltage of 1.20 V. Research, 2019, 2019, 8474698.	2.8	22
25	Halide Versus Nonhalide Salts: The Effects of Guanidinium Salts on the Structural, Morphological, and Photovoltaic Performances of Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900234.	3.1	19
26	Perovskite Solar Cells Yielding Reproducible Photovoltage of 1.20 V. Research, 2019, 2019, 1-9.	2.8	15
27	Thioxoquinazolines: synthesis, reactions and biological activities. Journal of Sulfur Chemistry, 2011, 32, 361-395.	1.0	14
28	Catalytic activity of bimetallic AuPd alloys supported MgO and MnO 2 nanostructures and their role in selective aerobic oxidation of alcohols. Journal of King Saud University - Science, 2017, 29, 561-566.	1.6	14
29	Synthesis of New Symmetrical N, N'-Diacylhydrazines and 2-(1,2,3- Triazol-4-yl)-1,3,4-oxadiazoles. Letters in Organic Chemistry, 2017, 14, .	0.2	14
30	Bimetallic Au:Pd nanoparticle supported on MgO for the oxidation of benzyl alcohol. Reaction Kinetics, Mechanisms and Catalysis, 2019, 128, 97-108.	0.8	11
31	High Open Circuit Voltage for Perovskite Solar Cells with S,Siâ€Heteropentaceneâ€Based Hole Conductors. European Journal of Inorganic Chemistry, 2018, 2018, 4573-4578.	1.0	10
32	Enhancement of Photostabilization of Poly(vinyl chloride) Doped with Sulfadiazine Tin Complexes. Journal of Vinyl and Additive Technology, 2020, 26, 370-379.	1.8	10
33	New Porous Silicon-Containing Organic Polymers: Synthesis and Carbon Dioxide Uptake. Processes, 2020, 8, 1488.	1.3	9
34	Tin Complexes Containing an Atenolol Moiety as Photostabilizers for Poly(Vinyl Chloride). Polymers, 2020, 12, 2923.	2.0	8
35	Facile Synthesis and Characterization of Palladium@Carbon Catalyst for the Suzuki-Miyaura and Mizoroki-Heck Coupling Reactions. Applied Sciences (Switzerland), 2021, 11, 4822.	1.3	8
36	Lithium-Based Upconversion Nanoparticles for High Performance Perovskite Solar Cells. Nanomaterials, 2021, 11, 2909.	1.9	6

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37	Synthesis and use of carvedilol metal complexes as carbon dioxide storage media. Applied Petrochemical Research, 2020, 10, 157-164.	1.3	5
38	Valsartan metal complexes as capture and reversible storage media for methane. Applied Petrochemical Research, 2020, 10, 77-82.	1.3	5
39	A Process for Hydrogen Production from the Catalytic Decomposition of Formic Acid over Iridiumâ€”Palladium Nanoparticles. Materials, 2021, 14, 3258.	1.3	4
40	Reactions of organolithium reagents with quinazoline derivatives. Arkivoc, 2013, 2012, 35-78.	0.3	4
41	Regioselective dinitration of simple aromatics over zeolite HÎ²/nitric acid/acid anhydride systems. Arkivoc, 2014, 2014, 107-123.	0.3	4
42	1-(2-Bromo-4-chlorophenyl)-3,3-dimethylthiourea. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, o704-o704.	0.2	3
43	Synthesis and Structure Elucidation of Nâ€²-(4-Methoxybenzylidene)-5-methyl-1-phenyl-1H-1,2,3-triazole-4-carbohydrazide. MolBank, 2018, 2018, M1034.	0.2	3
44	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}-4,5-dihydro-1 IUCrData, 2018, 3, .	0.1	3
45	5-Methyl-1-(4-methylphenyl)-Nâ€²-[1-(thiophen-2-yl)ethylidene]-1H-1,2,3-triazole-4-carbohydrazide. IUCrData, 2018, 3, .	0.1	3
46	Crystal structure of 3-(2-bromophenyl)-1,1-dimethylthiourea, C₉H₁₁BrN₂S. Zeitschrift Fur Kristallographie - New Crystal Structures, 2017, 232, 31-32.	0.1	2
47	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-tr C₃₁H₂₆N₈O. Zeitschrift Fur Kristallographie - New Crystal Structures, 2018, 233, 647-648.	0.1	2
48	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.	0.1	2
49	Crystal structure of Nâ€²-(1-(2-hydroxyphenyl)ethylidene)-5-methyl-1-phenyl-1H-1,2,3-triazole-4-carbohydrazide, C₁₈H₁₇N₅O₂. Zeitschrift Fur Kristallographie - New Crystal Structures, 2019, 234, 355-357.	0.1	2
50	5-Methyl-1-(4-methylphenyl)-Nâ€²-[1-(1H-pyrrol-2-yl)ethylidene]-1H-1,2,3-triazole-4-carbohydrazide monohydrate. IUCrData, 2018, 3, .	0.1	2
51	Nâ€²-[5-Acetyl-3-(4-chlorophenyl)-2,3-dihydro-1,3,4-thiadiazol-2-ylidene]-5-(1H-indol-3-yl)-1-phenyl-1H-pyrazole-3 dimethylformamide monosolvate. IUCrData, 2019, 4, .	0.1	2
52	Nâ€²-[5-Acetyl-3-(4-bromophenyl)-2,3-dihydro-1,3,4-thiadiazol-2-ylidene]-5-(1H-indol-3-yl)-1-phenyl-1H-pyrazole-3-ca dimethylformamide monosolvate. IUCrData, 2019, 4, .	0.1	2
53	Regioselective nitration of 2- and 4-nitrotoluenes over systems comprising nitric acid, an acid anhydride and a zeolite. Arkivoc, 2014, 2014, 301-309.	0.3	2
54	Crystal structure of 5-(5-(4-chlorophenyl)-1-phenyl-1H-pyrazol-3-yl)-N-phenyl-2-amine, C₂₃H₁₆ClN₅O. Zeitschrift Fur Kristallographie - New Crystal Structures, 2019, 234, 543-545.	0.1	1

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55	Crystal structure of Nâ€²-(1-(benzofuran-2-yl)ethylidene)-2-cyanoacetohydrazide, C₁₃H₁₁N₃O₂. Zeitschrift Fur Kristallographie - New Crystal Structures, 2019, 234, 361-362.	0.1	1
56	(E)-3-(4-Fluorophenyl)-1-[1-(4-fluorophenyl)-5-methyl-1H-1,2,3-triazol-4-yl]prop-2-en-1-one. IUCrData, 2018, 3, .	0.1	1
57	Methyl 5-(1-benzofuran-2-yl)isoxazole-3-carboxylate. IUCrData, 2017, 2, .	0.1	1
58	Convenient Synthesis of New Heterocycles Containing the Quinoxaline Ring System. Letters in Organic Chemistry, 2020, 17, 121-126.	0.2	1
59	Crystal structure of 1,1-dimethyl-3-(2-phenylethyl)urea, C₁₁H₁₆N₂O. Zeitschrift Fur Kristallographie - New Crystal Structures, 2016, 231, 1065-1066.	0.1	0
60	Crystal structure of (E)-Nâ€²-(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.	0.1	0
61	7-(4-Fluorobenzylidene)-3-(4-fluorophenyl)-N-phenyl-3,3a,4,5,6,7-hexahydro-2H-indazole-2-carbothioamideâ€“dimet (2/1), C₂₇H₂₃F₂N₃S, 0.5(C₃H₇NO). Zeitschrift Fur Kristallographie - New Crystal Structures, 2019, 234, 1141-1143.	0.1	0
62	1-[5-Methyl-1-(4-methylphenyl)-1H-1,2,3-triazol-4-yl]ethanone. IUCrData, 2017, 2, .	0.1	0
63	(E)-1-(4-Bromophenyl)-3-[3-(5-methyl-1-phenyl-1H-1,2,3-triazol-4-yl)-1-phenyl-1H-pyrazol-4-yl]prop-2-en-1-one. IUCrData, 2018, 3, .	0.1	0
64	Ethyl (Z)-2-[2-(4-methylphenyl)hydrazin-1-ylidene]-3-oxo-3-(thiazol-2-ylamino)propanoate. IUCrData, 2018, 3, .	0.1	0
65	2-({6-[5-Methyl-1-(4-methylphenyl)-1H-1,2,3-triazol-4-yl]imidazo[2,1-b]thiazol-5-yl}methylidene)hydrazinecarbothioamide dimethylformamide 0.25-solvate. IUCrData, 2018, 3, .	0.1	0
66	Sodium 1-(4-chlorophenyl)-5-methyl-1H-1,2,3-triazole-4-carboxylate. IUCrData, 2018, 3, .	0.1	0
67	Ethyl 2-anilino-4-methyl-5-[5-methyl-1-(4-methylphenyl)-1H-1,2,3-triazole-4-carbonyl]thiophene-3-carboxylate. IUCrData, 2018, 3, .	0.1	0
68	5-[5-(4-Chlorophenyl)isoxazol-3-yl]-N-phenyl-1,3,4-oxadiazol-2-amine. IUCrData, 2019, 4, .	0.1	0
69	2-[5-(4-Fluorophenyl)-3-(4-methylphenyl)-4,5-dihydro-1H-pyrazol-1-yl]-4-(5-methyl-1-phenyl-1H-1,2,3-triazol-4-yl)thiazole IUCrData, 2019, 4, .	0.1	0
70	1-(4-Fluorophenyl)-5-methyl-Nâ€²-{1-[5-methyl-1-(4-methylphenyl)-1H-1,2,3-triazol-4-yl]ethylidene}-1H-1,2,3-triazol IUCrData, 2019, 4, .	0.1	0
71	5-[(4-Chlorophenyl)diazenyl]-2-[5-(4-fluorophenyl)-3-(furan-2-yl)-4,5-dihydro-1H-pyrazol-1-yl]-4-methylthiazole. IUCrData, 2019, 4, .	0.1	0
72	5-Methyl-Nâ€²-[5-methyl-1-(4-methylphenyl)-1H-1,2,3-triazole-4-carbonyl]-1-(4-methylphenyl)-1H-1,2,3-triazole-4-ca C₂₂H₂₂N₈O₂. Zeitschrift Fur Kristallographie - New Crystal Structures, 2019, 234, 1027-1029.	0.1	0