

Mohd Asri Mat Teridi

List of Publications by Year in descending order

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69
papers

3,139
citations

172457

29
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155660

55
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69
all docs

69
docs citations

69
times ranked

4553
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile tuning of PbI ₂ porosity via additive engineering for humid air processable perovskite solar cells. <i>Electrochimica Acta</i> , 2022, 402, 139530.	5.2	5
2	The γ -radiated g-C ₃ N ₄ additive for highly conductive electron transport layer in polymer solar cells. <i>Materials Letters</i> , 2022, 308, 131297.	2.6	3
3	Accelerating the controlled synthesis of WO ₃ photoanode by modifying aerosol-assisted chemical vapour deposition for photoelectrochemical water splitting. <i>Chemical Engineering Science</i> , 2022, 252, 117294.	3.8	5
4	Performance-Enhancing Sulfur-Doped TiO ₂ Photoanodes for Perovskite Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 429.	2.5	3
5	Motion-dispensing as an effective strategy for preparing efficient high-humidity processed perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157320.	5.5	5
6	Cyclic voltammetry - A promising approach towards improving photoelectrochemical activity of hematite. <i>Journal of Alloys and Compounds</i> , 2021, 852, 156757.	5.5	14
7	Direct extrapolation techniques on the energy band diagram of BiVO ₄ thin films. <i>Physica B: Condensed Matter</i> , 2021, 604, 412719.	2.7	42
8	An Overview of the Recent Progress in Polymeric Carbon Nitride Based Photocatalysis. <i>Chemical Record</i> , 2021, 21, 1811-1844.	5.8	29
9	Improving the stability and efficiency of polymer solar cells by γ -radiated graphitic carbon nitride. <i>International Journal of Energy Research</i> , 2021, 45, 15284-15297.	4.5	12
10	Superiority of two-step deposition over one-step deposition for perovskite solar cells processed in high humidity atmosphere. <i>Optical Materials</i> , 2021, 118, 111288.	3.6	9
11	Electrodeposition of BiVO ₄ with needle-like flower architecture for high performance photoelectrochemical splitting of water. <i>Ceramics International</i> , 2021, 47, 24227-24239.	4.8	19
12	A novel photoanode based on Thorium oxide (ThO ₂) incorporated with graphitic Carbon nitride (g-C ₃ N ₄) for Photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2021, 569, 151043.	6.1	25
13	Reduced Graphene Oxide/Copper Nanoparticle Composites as Electrochemical Sensor Materials for Nitrate Detection. <i>ACS Applied Nano Materials</i> , 2021, 4, 12737-12744.	5.0	21
14	Recent Issues and Configuration Factors in Perovskite-Silicon Tandem Solar Cells towards Large Scaling Production. <i>Nanomaterials</i> , 2021, 11, 3186.	4.1	10
15	W ₁₈ O ₄₇ Nanocatalyst for Pollutant Degradation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27148-27158.	3.1	2
16	Fabrication of exfoliated graphitic carbon nitride, (g-C ₃ N ₄) thin film by methanolic dispersion. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152916.	5.5	49
17	Boosting photocatalytic activities of BiVO ₄ by creation of g-C ₃ N ₄ /ZnO@BiVO ₄ Heterojunction. <i>Materials Research Bulletin</i> , 2020, 125, 110779.	5.2	59
18	Boron-doped graphene-supported manganese oxide nanotubes as an efficient non-metal catalyst for the oxygen reduction reaction. <i>Sustainable Energy and Fuels</i> , 2020, 4, 737-749.	4.9	15

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19	Efficient colloidal quantum dot light-emitting diodes operating in the second near-infrared biological window. <i>Nature Photonics</i> , 2020, 14, 50-56.	31.4	72
20	Nanostructure-assisted charge transfer in $\text{Fe}_2\text{O}_3/\text{g-C}_3\text{N}_4$ heterojunctions for efficient and highly stable photoelectrochemical water splitting. <i>Dalton Transactions</i> , 2020, 49, 11317-11328.	3.3	27
21	Rapid fabrication of oxygen defective Fe_2O_3 (110) for enhanced photoelectrochemical activities. <i>Dalton Transactions</i> , 2020, 49, 12037-12048.	3.3	36
22	High-humidity processed perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10481-10518.	10.3	56
23	Perovskite Flash Memory with a Single-Layer Nanofloating Gate. <i>Nano Letters</i> , 2020, 20, 5081-5089.	9.1	15
24	A hysteresis-free perovskite transistor with exceptional stability through molecular cross-linking and amine-based surface passivation. <i>Nanoscale</i> , 2020, 12, 7641-7650.	5.6	40
25	Outstanding Photocurrent Density and Incident Photon to Current Conversion Efficiency of Liquid State NiO Perovskite Sensitized Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900607.	1.8	4
26	Effect of Oxygen Vacancies in Electron Transport Layer for Perovskite Solar Cells. , 2020, , 283-305.		3
27	Optoelectronic and morphology properties of perovskite/silicon interface layer for tandem solar cell application. <i>Surface and Interface Analysis</i> , 2020, 52, 422-432.	1.8	6
28	Perylene derivatives for solar cells and energy harvesting: a review of materials, challenges and advances. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15803-15824.	2.2	35
29	The influences of post-annealing temperatures on fabrication graphitic carbon nitride, (g-C ₃ N ₄) thin film. <i>Applied Surface Science</i> , 2019, 489, 92-100.	6.1	55
30	Incorporation of g-C ₃ N ₄ /Ag dopant in TiO ₂ as electron transport layer for organic solar cells. <i>Materials Letters</i> , 2019, 253, 117-120.	2.6	29
31	Aerosol-assisted chemical vapour deposition of Fe_2O_3 nanoflowers for photoelectrochemical water splitting. <i>Ceramics International</i> , 2019, 45, 16797-16802.	4.8	53
32	Photoelectrochemical enhancement from deposition of BiVO ₄ photosensitizer on different thickness layer TiO ₂ photoanode for water splitting application. <i>Nano Structures Nano Objects</i> , 2019, 18, 100274.	3.5	15
33	Efficient Photoelectrochemical Performance of γ Irradiated $\text{g-C}_3\text{N}_4$ and Its $\text{g-C}_3\text{N}_4/\text{BiVO}_4$ Heterojunction for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9013-9026.	3.1	93
34	Eliminating oxygen vacancies in SnO ₂ films via aerosol-assisted chemical vapour deposition for perovskite solar cells and photoelectrochemical cells. <i>Journal of Alloys and Compounds</i> , 2019, 773, 997-1008.	5.5	79
35	Enhanced photoelectrochemical performance of Z-scheme $\text{g-C}_3\text{N}_4/\text{BiVO}_4$ photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2018, 234, 296-310.	20.2	301
36	Quantum dots processed by SILAR for solar cell applications. <i>Solar Energy</i> , 2018, 163, 256-270.	6.1	56

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37	A Mini-Review: Can Graphene Be a Novel Material for Perovskite Solar Cell Applications?. Nano-Micro Letters, 2018, 10, 27.	27.0	65
38	Progress towards highly stable and lead-free perovskite solar cells. Materials for Renewable and Sustainable Energy, 2018, 7, 1.	3.6	31
39	The architecture of the electron transport layer for a perovskite solar cell. Journal of Materials Chemistry C, 2018, 6, 682-712.	5.5	172
40	Graphitic carbon nitride (g-C ₃ N ₄) electrodes for energy conversion and storage: a review on photoelectrochemical water splitting, solar cells and supercapacitors. Journal of Materials Chemistry A, 2018, 6, 22346-22380.	10.3	244
41	Low Temperature Fabrication of Transparent Conductive Electrode With High Ultraviolet Transmittance Down to Wavelength of 250 nm. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800441.	2.4	7
42	Facile fabrication of graphitic carbon nitride, (g-C ₃ N ₄) thin film. Journal of Alloys and Compounds, 2018, 769, 130-135.	5.5	60
43	Prospects of life cycle assessment of renewable energy from solar photovoltaic technologies: A review. Renewable and Sustainable Energy Reviews, 2018, 96, 11-28.	16.4	236
44	Properties of zinc tin oxide thin film by aerosol assisted chemical vapor deposition (AACVD). AIP Conference Proceedings, 2018, , .	0.4	0
45	Simultaneous enhancement in light absorption and charge transportation of bismuth vanadate (BiVO ₄) photoanode via microwave annealing. Materials Letters, 2018, 233, 67-70.	2.6	31
46	New Insights into Se/BiVO ₄ Heterostructure for Photoelectrochemical Water Splitting: A Combined Experimental and DFT Study. Journal of Physical Chemistry C, 2017, 121, 6218-6228.	3.1	96
47	Photoelectrochemical water splitting over mesoporous CuPbI ₃ films prepared by electrophoretic technique. Monatshefte für Chemie, 2017, 148, 981-989.	1.8	13
48	Energy levels of natural sensitizers extracted from rengas (Gluta spp.) and mengkulang (Heritiera) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	7
49	Model development of monolithic tandem silicon-perovskite solar cell by SCAPS simulation. AIP Conference Proceedings, 2017, , .	0.4	13
50	Characterization of perovskite layer on various nanostructured silicon wafer. AIP Conference Proceedings, 2017, , .	0.4	2
51	Effect of temperature on the properties of SnO ₂ layer fabricated via AACVD and its application in photoelectrochemical cells and organic photovoltaic devices. Solar Energy, 2017, 158, 474-482.	6.1	45
52	The Application of Graphene and Its Derivatives to Energy Conversion, Storage, and Environmental and Biosensing Devices. Chemical Record, 2016, 16, 1591-1634.	5.8	58
53	A review of recent plasmonic nanoparticles incorporated P3HT: PCBM organic thin film solar cells. Organic Electronics, 2016, 36, 12-28.	2.6	84
54	Effect of synergic cooperation on optical and photoelectrochemical properties of CeO ₂ –MnO composite thin films. New Journal of Chemistry, 2016, 40, 5177-5184.	2.8	18

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55	Prospects and challenges of perovskite type transparent conductive oxides in photovoltaic applications. Part I â€” Material developments. <i>Solar Energy</i> , 2016, 137, 371-378.	6.1	34
56	A review of organic small molecule-based hole-transporting materials for meso-structured organicâ€”inorganic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15788-15822.	10.3	150
57	Zinc oxide nanorod doped graphene for high efficiency organic photovoltaic devices. <i>RSC Advances</i> , 2016, 6, 87319-87324.	3.6	3
58	Bandgap tuning of mixed organic cation utilizing chemical vapor deposition process. <i>Scientific Reports</i> , 2016, 6, 37378.	3.3	14
59	Stable and null current hysteresis perovskite solar cells based nitrogen doped graphene oxide nanoribbons hole transport layer. <i>Scientific Reports</i> , 2016, 6, 27773.	3.3	34
60	Prospects and challenges of perovskite type transparent conductive oxides in photovoltaic applications. Part II â€” Synthesis and deposition. <i>Solar Energy</i> , 2016, 139, 309-317.	6.1	4
61	Synthesis and characterization of 2,2â€”bithiophene end-capped dihexyloxy phenylene pentamer and its application in a solution-processed organic ultraviolet photodetector. <i>RSC Advances</i> , 2016, 6, 61848-61859.	3.6	8
62	Heterojunction Cr ₂ O ₃ /CuO:Ni photocathodes for enhanced photoelectrochemical performance. <i>RSC Advances</i> , 2016, 6, 56885-56891.	3.6	25
63	Photoelectrochemical water splitting performance of flower like ZnO nanostructures synthesized by a novel chemical method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 2846-2851.	2.2	20
64	Null current hysteresis for acetylacetonate electron extraction layer in perovskite solar cells. <i>Nanoscale</i> , 2016, 8, 6328-6334.	5.6	28
65	Plasmon enhanced organic devices utilizing highly ordered nanoimprinted gold nanodisks and nitrogen doped graphene. <i>Nanoscale</i> , 2015, 7, 7091-7100.	5.6	18
66	Defect chemistry and defect engineering of TiO ₂ -based semiconductors for solar energy conversion. <i>Chemical Society Reviews</i> , 2015, 44, 8424-8442.	38.1	276
67	Preparation of nanostructured p-NiO/n-Fe ₂ O ₃ heterojunction and study of their enhanced photoelectrochemical water splitting performance. <i>Materials Letters</i> , 2014, 133, 123-126.	2.6	23
68	Effect of radiation on conductivity of solid PVAâ€”KOHâ€”PC composite polymer electrolytes. <i>Ionics</i> , 2006, 12, 53-56.	2.4	13
69	Effects of gamma radiation treatment and plasticizer on alkaline solid polymer electrolytes. <i>Ionics</i> , 2005, 11, 468-471.	2.4	5