

Maciej Zalas

List of Publications by Year in descending order

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47
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641
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1026
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#	ARTICLE	IF	CITATIONS
1	A novel microwave-assisted strategy to fabricate multifunctional photoactive titania-based heterostructures with enhanced activity. <i>Materials Research Bulletin</i> , 2022, 147, 111633.	2.7	6
2	Electronic States of Tris(bipyridine) Ruthenium(II) Complexes in Neat Solid Films Investigated by Electroabsorption Spectroscopy. <i>Materials</i> , 2022, 15, 2278.	1.3	2
3	Experimental and theoretical insight into DSSCs mechanism influenced by different doping metal ions. <i>Applied Surface Science</i> , 2022, 597, 153607.	3.1	4
4	Impact of dyes isomerization effect on the charge transfer phenomenon occurring on the dye/nanosemiconductor interface. <i>Solar Energy Materials and Solar Cells</i> , 2021, 219, 110771.	3.0	4
5	Erratum to "Synthesis of a novel dinuclear ruthenium polypyridine dye for dye-sensitized solar cells application" [Polyhedron 67 (2014) 381-387]. <i>Polyhedron</i> , 2021, 204, 113966.	1.0	1
6	Corrigendum to "Synthesis of a novel dinuclear ruthenium polypyridine dye for dye-sensitized solar cells application" [Polyhedron 67 (2014) 381-387]. <i>Polyhedron</i> , 2021, 204, 114246.	1.0	0
7	How Can the Introduction of Zr ⁴⁺ Ions into TiO ₂ Nanomaterial Impact the DSSC Photoconversion Efficiency? A Comprehensive Theoretical and Experimental Consideration. <i>Materials</i> , 2021, 14, 2955.	1.3	6
8	Comments on: Hydrogen treated TiO ₂ nanoparticles onto FTO glass as photoanode for dye-sensitized solar cells with remarkably enhanced performance [International Journal of Hydrogen Energy 46 (2021) 14311-14321; doi: 10.1016/j.ijhydene.2021.01.184]. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30216-30217.	3.8	0
9	The TiO ₂ -ZnO Systems with Multifunctional Applications in Photoactive Processes: Efficient Photocatalyst under UV-LED Light and Electrode Materials in DSSCs. <i>Materials</i> , 2021, 14, 6063.	1.3	10
10	Laser Desorption/Ionization Mass Spectrometry as a Potential Tool for Evaluation of Hydroxylation Degree of Various Types of Titanium Dioxide Materials. <i>Materials</i> , 2021, 14, 6848.	1.3	0
11	2-Thiohydantoin Moiety as a Novel Acceptor/Anchoring Group of Photosensitizers for Dye-Sensitized Solar Cells. <i>Materials</i> , 2020, 13, 2065.	1.3	15
12	Synthesis of Titanium Dioxide via Surfactant-Assisted Microwave Method for Photocatalytic and Dye-Sensitized Solar Cells Applications. <i>Catalysts</i> , 2020, 10, 586.	1.6	26
13	Optimization of platinum precursor concentration for new, fast and simple fabrication method of counter electrode for DSSC application. <i>Optik</i> , 2020, 206, 164314.	1.4	10
14	Microwave-assisted synthesis of a TiO ₂ -CuO heterojunction with enhanced photocatalytic activity against tetracycline. <i>Applied Surface Science</i> , 2020, 520, 146344.	3.1	106
15	Methyl group transfer upon gas phase decomposition of protonated methyl benzoate and similar compounds. <i>Journal of Mass Spectrometry</i> , 2018, 53, 379-384.	0.7	3
16	The influence of anchoring group position in ruthenium dye molecule on performance of dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2018, 150, 335-346.	2.0	12
17	Application of paper industry waste materials containing TiO ₂ for dye-sensitized solar cells fabrication. <i>Optik</i> , 2018, 158, 469-476.	1.4	16
18	Intramolecular hydrogen exchange prior to methanol loss from protonated methyl benzoates bearing different ring substituents under CID conditions. <i>Journal of Mass Spectrometry</i> , 2018, 53, 1022-1025.	0.7	2

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19	A Novel Photocatalytic Purification System for Fish Culture. <i>Zebrafish</i> , 2017, 14, 411-421.	0.5	19
20	Effect of Solvent Variations in the Alcothermal Synthesis of Template-Free Mesoporous Titania for Dye-Sensitized Solar Cells Applications. <i>PLoS ONE</i> , 2016, 11, e0164670.	1.1	2
21	Electrooxidation of diclofenac in methanol as studied by high-performance liquid chromatography/electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1662-1666.	0.7	6
22	Influence of water molecule on the complexes of methyl naphthoate isomers with metal cations. <i>International Journal of Mass Spectrometry</i> , 2016, 405, 9-12.	0.7	0
23	Magnetic field effects in dye-sensitized solar cells controlled by different cell architecture. <i>Scientific Reports</i> , 2016, 6, 30077.	1.6	24
24	Influence of carboxylic group or methyl ester group on the interactions of copper cation with aromatic system of naproxen, naphthalene acetic acids and their methyl esters. <i>International Journal of Mass Spectrometry</i> , 2016, 394, 29-32.	0.7	1
25	Unexpected formation of $[M]^{2+}$ from $[M+CuCl+H]^{2+}$ ions under CID conditions, where M is a molecule of 3,5-bis(2,2'-bipyridin-4-ylethynyl)benzoic acid or its methyl ester. <i>Open Chemistry</i> , 2015, 13, .	1.0	0
26	The Cortinarius Fungi Dyes as Sensitizers in Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2015, 2015, 1-6.	1.4	11
27	New Gel-Like Polymers as Selective Weak-Base Anion Exchangers. <i>PLoS ONE</i> , 2015, 10, e0122891.	1.1	9
28	Synthesis of a novel dinuclear ruthenium polypyridine dye for dye-sensitized solar cells application. <i>Polyhedron</i> , 2014, 67, 381-387.	1.0	22
29	Aggregation and Electrolyte Composition Effects on the Efficiency of Dye-Sensitized Solar Cells. A Case of a Near-Infrared Absorbing Dye for Tandem Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 194-205.	1.5	23
30	Synthesis of N-doped template-free mesoporous titania for visible light photocatalytic applications. <i>Catalysis Today</i> , 2014, 230, 91-96.	2.2	17
31	Gadolinium-modified titanium oxide materials for photoenergy applications: a review. <i>Journal of Rare Earths</i> , 2014, 32, 487-495.	2.5	40
32	Formation of the $[M+Cu+4Cl]^{+}$ ion under laser desorption ionization conditions as a result of Cl addition to a C-C bond (M = methyl or ethyl ester of 3,5-bis(2,2'-bipyridin-4-ylethynyl)benzoic acid). <i>Talanta</i> , 2014, 118, 100-106.	1.0	0
33	Novel Si-tripodand functionalized ionic liquids as iodide sources for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 108, 736-740.	2.6	2
34	Copper complexes formed by 3,5-bis(2,2'-bipyridin-4-ylethynyl)benzoic acid and its methyl and ethyl esters as studied by electrospray ionization mass spectrometry. <i>Open Chemistry</i> , 2013, 11, 2066-2075.	1.0	0
35	The Influence of Titania Electrode Modification with Lanthanide Ions Containing Thin Layer on the Performance of Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-8.	1.4	25
36	Multinuclear magnetic resonance studies of 1,3,4-thiadiazoles. <i>Magnetic Resonance in Chemistry</i> , 2012, 50, 637-641.	1.1	1

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37	Template free synthesis of locally-ordered mesoporous titania and its application in dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2012, 134, 170-176.	2.0	9
38	Synthesis of new dendritic antenna-like polypyridine ligands. <i>Chemical Papers</i> , 2012, 66, .	1.0	31
39	Increase in efficiency of dye-sensitized solar cells by porous TiO ₂ layer modification with gadolinium-containing thin layer. <i>Journal of Rare Earths</i> , 2011, 29, 783-786.	2.5	22
40	¹⁷ O NMR studies of substituted 1,3,4-oxadiazoles. <i>Magnetic Resonance in Chemistry</i> , 2011, 49, 648-654.	1.1	11
41	Multinuclear magnetic resonance studies of fluoronitroanilines. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 764-770.	1.1	1
42	¹⁵ N NMR study of substituted 2-(phenylamino)-5-phenyl-1,3,4-oxadiazoles. <i>Magnetic Resonance in Chemistry</i> , 2007, 45, 123-127.	1.1	5
43	Differentiation of fluoronitroaniline isomers by negative-ion electrospray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 361-364.	0.7	3
44	Photocatalytic hydrogen generation over lanthanides-doped titania. <i>Solar Energy Materials and Solar Cells</i> , 2005, 89, 287-296.	3.0	94
45	Mass spectrometric decomposition of N-arylbenzotriliium ions. <i>International Journal of Mass Spectrometry</i> , 2005, 242, 1-4.	0.7	5
46	SYNTHESIS OF SUBSTITUTED 1,3,4-THIADIAZOLES USING LAWESSON'S REAGENT. <i>Organic Preparations and Procedures International</i> , 2005, 37, 213-222.	0.6	35
47	Microwave-assisted synthesis of TiO ₂ -ZnO oxide systems with enhanced photocatalytic and photovoltaic activity. , 0, , .		0