

Michael G Walter

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32
papers

9,206
citations

16
h-index

39
g-index

39
ext. papers

9,927
ext. citations

7.8
avg, IF

5.87
L-index

#	Paper	IF	Citations
32	Bipolar charge transport in a robust hexacoordinate organosilane. <i>Journal of Organometallic Chemistry</i> , 2022 , 961, 122208	2.3	1
31	Obtaining Reversible, High Contrast Electrochromism, Electrofluorochromism, and Photochromism in an Aqueous Hydrogel Device Using Chromogenic Thiazolothiazoles. <i>Advanced Functional Materials</i> , 2021 , 31, 2103408	15.6	9
30	Theoretical background on semiconducting polymers and their applications to OSCs and OLEDs. <i>Chemistry Teacher International</i> , 2021 , 3, 169-183	1	1
29	Mitigating the charge trapping effects of D-sorbitol/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) (PEDOT:PSS) polymer blend contacts to crystalline silicon. <i>Pure and Applied Chemistry</i> , 2021 ,	2.1	1
28	Synthesis and optoelectronic properties of benzodithiophene-based conjugated polymers with hydrogen bonding nucleobase side chain functionality. <i>Polymer Chemistry</i> , 2020 , 11, 5735-5749	4.9	8
27	Thiazolothiazole-Based Luminescent Metal-Organic Frameworks with Ligand-to-Ligand Energy Transfer and Hg-Sensing Capabilities. <i>Inorganic Chemistry</i> , 2019 , 58, 12707-12715	5.1	42
26	List of keywords for polymer science (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2019 , 91, 997-1027	2.1	
25	Photostable Voltage-Sensitive Dyes Based on Simple, Solvatofluorochromic, Asymmetric Thiazolothiazoles. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18780-18790	16.4	39
24	Conductive poly(3,4-ethylenedioxythiophene): poly(styrene sulfonate) polymer glue as an ohmic and rectifying electrical contact for H-terminated n-Si and p-Si wafers. <i>Polymer International</i> , 2018 , 67, 853-858	3.3	1
23	Si(bzimpy) - a hexacoordinate silicon pincer complex for electron transport and electroluminescence. <i>Chemical Communications</i> , 2018 , 54, 14073-14076	5.8	6
22	Thiazolothiazole Fluorophores Exhibiting Strong Fluorescence and Viologen-Like Reversible Electrochromism. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8467-8473	16.4	135
21	Using Polymer Semiconductors and a 3-in-1 Plastic Electronics STEM Education Kit To Engage Students in Hands-On Polymer Inquiry Activities. <i>Journal of Chemical Education</i> , 2017 , 94, 1714-1720	2.4	2
20	Linking design and properties of purine-based donor-acceptor chromophores as optoelectronic materials. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6891-6898	7.1	14
19	Spatially resolved micro-photoluminescence imaging of porphyrin single crystals. <i>Chemical Physics Letters</i> , 2016 , 659, 137-141	2.5	1
18	Enhancing exciton diffusion in porphyrin thin films using peripheral carboalkoxy groups to influence molecular assembly. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5602-5609	7.1	13
17	Preparations and Electrochemical Characterizations of Conductive Porphyrin Polymers. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17378-17388	3.8	25
16	Efficient intersystem crossing using singly halogenated carbomethoxyphenyl porphyrins measured using delayed fluorescence, chemical quenching, and singlet oxygen emission. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 29090-6	3.6	25

15	The effects of heavy atoms on the exciton diffusion properties in photoactive thin films of tetrakis(4-carbomethoxyphenyl)porphyrins. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1243-1249	7.1	14
14	Developing a Polymer Semiconductor Education Kit and Curriculum for High School Science Classrooms. <i>Macromolecular Symposia</i> , 2015 , 355, 43-51	0.8	3
13	Porphyrin polymers and organic frameworks. <i>Polymer International</i> , 2015 , 64, 833-857	3.3	66
12	The Solar Army: A Case Study in Outreach Based on Solar Photoelectrochemistry. <i>Reviews in Advanced Sciences and Engineering</i> , 2014 , 3, 288-303		5
11	Electrical Junction Behavior of Poly(3,4-ethylenedioxythiophene) (PEDOT) Contacts to H-Terminated and CH ₃ -Terminated p-, n-, and n ⁺ -Si(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 14485-14492	3.8	22
10	Electrical conductivity, ionic conductivity, optical absorption, and gas separation properties of ionically conductive polymer membranes embedded with Si microwire arrays. <i>Energy and Environmental Science</i> , 2011 , 4, 1772	35.4	95
9	Characterization of the Electrical Properties of Individual p-Si Microwire/Polymer/n-Si Microwire Assemblies. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24945-24950	3.8	15
8	Electrical Characterization of Si Microwires and of Si Microwire/Conducting Polymer Composite Junctions. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 675-680	6.4	16
7	Photoelectrochemical hydrogen evolution using Si microwire arrays. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1216-9	16.4	515
6	pH-Independent, 520 mV Open-Circuit Voltages of Si/Methyl Viologen ^{2+ / +} Contacts Through Use of Radial n+p-Si Junction Microwire Array Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 594-598	3.8	47
5	Synthesis and Characterization of Electropolymerized Nanostructured Aminophenylporphyrin Films. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7563-7574	3.8	59
4	Reaction of dichloromethane with pyridine derivatives under ambient conditions. <i>Journal of Organic Chemistry</i> , 2010 , 75, 4292-5	4.2	53
3	Porphyrins and phthalocyanines in solar photovoltaic cells. <i>Journal of Porphyrins and Phthalocyanines</i> , 2010 , 14, 759-792	1.8	547
2	Solar water splitting cells. <i>Chemical Reviews</i> , 2010 , 110, 6446-73	68.1	7335
1	Syntheses and optoelectronic properties of amino/carboxyphenylporphyrins for potential use in dye-sensitized TiO ₂ solar cells. <i>Journal of Porphyrins and Phthalocyanines</i> , 2007 , 11, 601-612	1.8	32