

Michael G Walter

List of Publications by Year in descending order

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37
papers

10,563
citations

535685

17
h-index

406436

35
g-index

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all docs

39
docs citations

39
times ranked

18063
citing authors

#	ARTICLE	IF	CITATIONS
1	Glossary of terms relating to electronic, photonic and magnetic properties of polymers (IUPAC) Tj ETQq1 1 0.784314,rgBT /Overlock 10	0.9	1
2	Bipolar charge transport in a robust hexacoordinate organosilane. Journal of Organometallic Chemistry, 2022, 961, 122208.	0.8	1
3	Exploring the molecular electronic device applications of synthetically versatile silicon pincer complexes as charge transport and electroluminescent layers. Materials Advances, 2022, 3, 2373-2379.	2.6	5
4	Self-Assembly-Directed Exciton Diffusion in Solution-Processable Metalloporphyrin Thin Films. Molecules, 2022, 27, 35.	1.7	1
5	Theoretical background on semiconducting polymers and their applications to OSCs and OLEDs. Chemistry Teacher International, 2021, 3, 169-183.	0.9	7
6	Obtaining Reversible, High Contrast Electrochromism, Electrofluorochromism, and Photochromism in an Aqueous Hydrogel Device Using Chromogenic Thiazolothiazoles. Advanced Functional Materials, 2021, 31, 2103408.	7.8	41
7	Mitigating the charge trapping effects of <i>D</i> -sorbitol/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) (PEDOT:PSS) polymer blend contacts to crystalline silicon. Pure and Applied Chemistry, 2021, 93, 1109-1117.	0.9	1
8	Synthesis and optoelectronic properties of benzodithiophene-based conjugated polymers with hydrogen bonding nucleobase side chain functionality. Polymer Chemistry, 2020, 11, 5735-5749.	1.9	13
9	Photostable Voltage-Sensitive Dyes Based on Simple, Solvatofluorochromic, Asymmetric Thiazolothiazoles. Journal of the American Chemical Society, 2019, 141, 18780-18790.	6.6	73
10	Thiazolothiazole-Based Luminescent Metal-Organic Frameworks with Ligand-to-Ligand Energy Transfer and Hg ²⁺ -Sensing Capabilities. Inorganic Chemistry, 2019, 58, 12707-12715.	1.9	67
11	List of keywords for polymer science (IUPAC Technical Report). Pure and Applied Chemistry, 2019, 91, 997-1027.	0.9	0
12	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. Polymer International, 2018, 67, 853-858.	1.6	1
13	Si(bzimpy) ₂ a hexacoordinate silicon pincer complex for electron transport and electroluminescence. Chemical Communications, 2018, 54, 14073-14076.	2.2	10
14	Thiazolothiazole Fluorophores Exhibiting Strong Fluorescence and Viologen-Like Reversible Electrochromism. Journal of the American Chemical Society, 2017, 139, 8467-8473.	6.6	208
15	Using Polymer Semiconductors and a 3-in-1 Plastic Electronics STEM Education Kit To Engage Students in Hands-On Polymer Inquiry Activities. Journal of Chemical Education, 2017, 94, 1714-1720.	1.1	3
16	Linking design and properties of purine-based donor-acceptor chromophores as optoelectronic materials. Journal of Materials Chemistry C, 2017, 5, 6891-6898.	2.7	15
17	Enhancing exciton diffusion in porphyrin thin films using peripheral carboalkoxy groups to influence molecular assembly. Journal of Materials Chemistry C, 2016, 4, 5602-5609.	2.7	18
18	Structural modifications to enhance the exciton diffusion in bilayer porphyrin fullerene thin films. , 2016, , .		0

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19	Spatially resolved micro-photoluminescence imaging of porphyrin single crystals. <i>Chemical Physics Letters</i> , 2016, 659, 137-141.	1.2	1
20	Developing a Polymer Semiconductor Education Kit and Curriculum for High School Science Classrooms. <i>Macromolecular Symposia</i> , 2015, 355, 43-51.	0.4	4
21	Porphyrin polymers and organic frameworks. <i>Polymer International</i> , 2015, 64, 833-857.	1.6	76
22	Preparations and Electrochemical Characterizations of Conductive Porphyrin Polymers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17378-17388.	1.5	35
23	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, 29090-29096.	1.3	36
24	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.	2.7	19
25	The Solar Army: A Case Study in Outreach Based on Solar Photoelectrochemistry. <i>Reviews in Advanced Sciences and Engineering</i> , 2014, 3, 288-303.	0.6	6
26	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.	1.5	22
27	(Invited) Polymeric Porphyrins for Solar Photovoltaics and Solar Photochemistry. <i>ECS Meeting Abstracts</i> , 2013, , .	0.0	0
28	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.	1.5	15
29	Electrical Characterization of Si Microwires and of Si Microwire/Conducting Polymer Composite Junctions. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 675-680.	2.1	17
30	Photoelectrochemical Hydrogen Evolution Using Si Microwire Arrays. <i>Journal of the American Chemical Society</i> , 2011, 133, 1216-1219.	6.6	561
31	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.	1.5	52
32	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.	15.6	103
33	Solar Water Splitting Cells. <i>Chemical Reviews</i> , 2010, 110, 6446-6473.	23.0	8,307
34	Synthesis and Characterization of Electropolymerized Nanostructured Aminophenylporphyrin Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7563-7574.	1.5	76
35	Reaction of Dichloromethane with Pyridine Derivatives under Ambient Conditions. <i>Journal of Organic Chemistry</i> , 2010, 75, 4292-4295.	1.7	64
36	Porphyrins and phthalocyanines in solar photovoltaic cells. <i>Journal of Porphyrins and Phthalocyanines</i> , 2010, 14, 759-792.	0.4	599

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37	Syntheses and optoelectronic properties of amino/carboxyphenylporphyrins for potential use in dye-sensitized TiO_2 solar cells. Journal of Porphyrins and Phthalocyanines, 2007, 11, 601-612.	0.4	37