Michael G Walter

List of Publications by Year
in descending order

37 papers	10,563 citations	471477 17 h-index	361001 35 g-index
39 all docs	39 docs citations	39 times ranked	15568 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	1.9	1
2	Bipolar charge transport in a robust hexacoordinate organosilane. Journal of Organometallic Chemistry, 2022, 961, 122208.	1.8	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.	5.4	5
4	Self-Assembly-Directed Exciton Diffusion in Solution-Processable Metalloporphyrin Thin Films. Molecules, 2022, 27, 35.	3.8	1
5	Theoretical background on semiconducting polymers and their applications to OSCs and OLEDs. Chemistry Teacher International, 2021, 3, 169-183.	1.7	7
6	Obtaining Reversible, High Contrast Electrochromism, Electrofluorochromism, and Photochromism in an Aqueous Hydrogel Device Using Chromogenic Thiazolothiazoles. Advanced Functional Materials, 2021, 31, 2103408.	14.9	41
7	Mitigating the charge trapping effects of D-sorbitol/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) (PEDOT:PSS) polymer blend contacts to crystalline silicon. Pure and Applied Chemistry, 2021, 93, 1109-1117.	1.9	1
8	Synthesis and optoelectronic properties of benzodithiophene-based conjugated polymers with hydrogen bonding nucleobase side chain functionality. Polymer Chemistry, 2020, 11, 5735-5749.	3.9	13
9	Photostable Voltage-Sensitive Dyes Based on Simple, Solvatofluorochromic, Asymmetric Thiazolothiazoles. Journal of the American Chemical Society, 2019, 141, 18780-18790.	13.7	73
10	Thiazolothiazole-Based Luminescent Metalâ€"Organic Frameworks with Ligand-to-Ligand Energy Transfer and Hg²⁺-Sensing Capabilities. Inorganic Chemistry, 2019, 58, 12707-12715.	4.0	67
11	List of keywords for polymer science (IUPAC Technical Report). Pure and Applied Chemistry, 2019, 91, 997-1027.	1.9	0
12	Conductive poly(3,4â€ethylenedioxythiophene): poly(styrene sulfonate) polymer glue as an ohmic and rectifying electrical contact for Hâ€terminated nâ€Si and pâ€Si wafers. Polymer International, 2018, 67, 853-858.	3.1	1
13	Si(bzimpy)₂ â€" a hexacoordinate silicon pincer complex for electron transport and electroluminescence. Chemical Communications, 2018, 54, 14073-14076.	4.1	10
14	Thiazolothiazole Fluorophores Exhibiting Strong Fluorescence and Viologen-Like Reversible Electrochromism. Journal of the American Chemical Society, 2017, 139, 8467-8473.	13.7	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.	2.3	3
16	Linking design and properties of purine-based donorâ€"acceptor chromophores as optoelectronic materials. Journal of Materials Chemistry C, 2017, 5, 6891-6898.	5.5	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.	5.5	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. Chemical Physics Letters, 2016, 659, 137-141.	2.6	1
20	Developing a Polymer Semiconductor Education Kit and Curriculum for High School Science Classrooms. Macromolecular Symposia, 2015, 355, 43-51.	0.7	4
21	Porphyrin polymers and organic frameworks. Polymer International, 2015, 64, 833-857.	3.1	76
22	Preparations and Electrochemical Characterizations of Conductive Porphyrin Polymers. Journal of Physical Chemistry C, 2015, 119, 17378-17388.	3.1	35
23	Efficient intersystem crossing using singly halogenated carbomethoxyphenyl porphyrins measured using delayed fluorescence, chemical quenching, and singlet oxygen emission. Physical Chemistry Chemical Physics, 2015, 17, 29090-29096.	2.8	36
24	The effects of heavy atoms on the exciton diffusion properties in photoactive thin films of tetrakis(4-carbomethoxyphenyl)porphyrins. Journal of Materials Chemistry C, 2015, 3, 1243-1249.	5.5	19
25	The Solar Army: A Case Study in Outreach Based on Solar Photoelectrochemistry. Reviews in Advanced Sciences and Engineering, 2014, 3, 288-303.	0.6	6
26	Electrical Junction Behavior of Poly(3,4-ethylenedioxythiophene) (PEDOT) Contacts to H-Terminated and CH₃-Terminated p-, n-, and n⁺-Si(111) Surfaces. Journal of Physical Chemistry C, 2013, 117, 14485-14492.	3.1	22
27	(Invited) Polymeric Porphyrins for Solar Photovoltaics and Solar Photochemistry. ECS Meeting Abstracts, 2013, , .	0.0	0
28	Characterization of the Electrical Properties of Individual p-Si Microwire/Polymer/n-Si Microwire Assemblies. Journal of Physical Chemistry C, 2011, 115, 24945-24950.	3.1	15
29	Electrical Characterization of Si Microwires and of Si Microwire/Conducting Polymer Composite Junctions. Journal of Physical Chemistry Letters, 2011, 2, 675-680.	4.6	17
30	Photoelectrochemical Hydrogen Evolution Using Si Microwire Arrays. Journal of the American Chemical Society, 2011, 133, 1216-1219.	13.7	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. Journal of Physical Chemistry C, 2011, 115, 594-598.	3.1	52
32	Electrical conductivity, ionic conductivity, optical absorption, and gas separation properties of ionically conductive polymer membranes embedded with Si microwire arrays. Energy and Environmental Science, 2011, 4, 1772.	30.8	103
33	Solar Water Splitting Cells. Chemical Reviews, 2010, 110, 6446-6473.	47.7	8,307
34	Synthesis and Characterization of Electropolymerized Nanostructured Aminophenylporphyrin Films. Journal of Physical Chemistry C, 2010, 114, 7563-7574.	3.1	76
35	Reaction of Dichloromethane with Pyridine Derivatives under Ambient Conditions. Journal of Organic Chemistry, 2010, 75, 4292-4295.	3.2	64
36	Porphyrins and phthalocyanines in solar photovoltaic cells. Journal of Porphyrins and Phthalocyanines, 2010, 14, 759-792.	0.8	599

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37	Syntheses and optoelectronic properties of amino/carboxyphenylporphyrins for potential use in dye-sensitizedTiO₂solar cells. Journal of Porphyrins and Phthalocyanines, 2007, 11, 601-612.	0.8	37