

# Simon Mathew

## List of Publications by Year in descending order

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38  
papers

5,293  
citations

393982

19  
h-index

360668

35  
g-index

40  
all docs

40  
docs citations

40  
times ranked

7198  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dye-sensitized solar cells with 13% efficiency achieved through the molecular engineering of porphyrin sensitizers. <i>Nature Chemistry</i> , 2014, 6, 242-247.	6.6	3,982
2	Molecular Engineering of a Fluorene Donor for Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013, 25, 2733-2739.	3.2	154
3	Density Gradation of Open Metal Sites in the Mesospace of Porous Coordination Polymers. <i>Journal of the American Chemical Society</i> , 2017, 139, 11576-11583.	6.6	118
4	Optical, Electrochemical, and Photovoltaic Effects of an Electron-Withdrawing Tetrafluorophenylene Bridge in a Push-Pull Porphyrin Sensitizer Used for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14415-14424.	1.5	94
5	Ruthenium Porphyrin Functionalized Single-Walled Carbon Nanotube Arrays—A Step Toward Light Harvesting Antenna and Multibit Information Storage. <i>Journal of the American Chemical Society</i> , 2008, 130, 8788-8796.	6.6	93
6	Control over Electrochemical Water Oxidation Catalysis by Preorganization of Molecular Ruthenium Catalysts in Self-Assembled Nanospheres. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11247-11251.	7.2	76
7	Molecular Engineering of Phthalocyanine Sensitizers for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17166-17170.	1.5	70
8	Tunable, strongly-donating perylene photosensitizers for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 7166.	6.7	69
9	Investigation of electrodeposited cobalt sulphide counter electrodes and their application in next-generation dye sensitized solar cells featuring organic dyes and cobalt-based redox electrolytes. <i>Journal of Power Sources</i> , 2015, 275, 80-89.	4.0	64
10	Homogeneous Catalysts Based on First-Row Transition Metals for Electrochemical Water Oxidation. <i>ChemSusChem</i> , 2021, 14, 234-250.	3.6	64
11	Towards Compatibility between Ruthenium Sensitizers and Cobalt Electrolytes in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8731-8735.	7.2	61
12	Dye-sensitized solar cells using cobalt electrolytes: the influence of porosity and pore size to achieve high-efficiency. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2833-2843.	2.7	52
13	Near-Infrared-Absorbing Indolizine-Porphyrin Push-Pull Dye for Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 16474-16489.	4.0	48
14	Synthesis, characterization and ab initio investigation of a panchromatic ullazine-porphyrin photosensitizer for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2332-2339.	5.2	47
15	Surface functionalization of high free-volume polymers as a route to efficient hydrogen separation membranes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4686-4694.	5.2	37
16	Exclusive Photothermal Heat Generation by a Gadolinium Bis(naphthalocyanine) Complex and Inclusion into Modified High-Density Lipoprotein Nanocarriers for Therapeutic Applications. <i>ACS Nano</i> , 2013, 7, 8908-8916.	7.3	32
17	Redox-Mediated Alcohol Oxidation Coupled to Hydrogen Gas Formation in a Dye-Sensitized Photosynthesis Cell. <i>Chemistry - A European Journal</i> , 2021, 27, 218-221.	1.7	22
18	Control over Electrochemical Water Oxidation Catalysis by Preorganization of Molecular Ruthenium Catalysts in Self-Assembled Nanospheres. <i>Angewandte Chemie</i> , 2018, 130, 11417-11421.	1.6	20

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19	Control of the overpotential of a [FeFe] hydrogenase mimic by a synthetic second coordination sphere. <i>Chemical Communications</i> , 2019, 55, 3081-3084.	2.2	20
20	Just Add Water: Modulating the Structure-Derived Acidity of Catalytic Hexameric Resorcinarene Capsules. <i>Journal of the American Chemical Society</i> , 2021, 143, 16419-16427.	6.6	19
21	Aqueous Biphasic Dye-Sensitized Photosynthesis Cells for TEMPO-Based Oxidation of Glycerol. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	17
22	Synthesis and characterization of a range of POSS imides. <i>Dyes and Pigments</i> , 2012, 92, 659-667.	2.0	16
23	Finely Controlled Stepwise Engineering of Pore Environments and Mechanistic Elucidation of Water-Stable, Flexible 2D Porous Coordination Polymers. <i>Chemistry - A European Journal</i> , 2018, 24, 6412-6417.	1.7	16
24	The Synthesis and Characterisation of a Free-Base Porphyrin-Perylene Dyad that Exhibits Electronic Coupling in Both the Ground and Excited States. <i>Chemistry - A European Journal</i> , 2009, 15, 248-253.	1.7	15
25	Topological prediction of palladium coordination cages. <i>Chemical Science</i> , 2020, 11, 12350-12357.	3.7	14
26	Lindqvist polyoxometalates as electrolytes in p-type dye sensitized solar cells. <i>Sustainable Energy and Fuels</i> , 2019, 3, 96-100.	2.5	13
27	Catalytic Synthesis of 1 <i>H</i> -2-Benzoxocins: Cobalt(III)-Carbene Radical Approach to 8-Membered Heterocyclic Enol Ethers. <i>Journal of the American Chemical Society</i> , 2021, 143, 20501-20512.	6.6	12
28	Comparison of homogeneous and heterogeneous catalysts in dye-sensitized photoelectrochemical cells for alcohol oxidation coupled to dihydrogen formation. <i>Sustainable Energy and Fuels</i> , 2021, 5, 5707-5716.	2.5	10
29	S,Ligand Promoted <i>meta</i> - <i>H</i> Arylation of Anisole Derivatives via Palladium/Norbornene Catalysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	9
30	p-Type dye-sensitized solar cells based on pseudorotaxane mediated charge-transfer. <i>Faraday Discussions</i> , 2019, 215, 393-406.	1.6	8
31	Novel Grafting onto Silica via Aldehyde Functionality. <i>Silicon</i> , 2009, 1, 29-36.	1.8	6
32	S,Ligand Promoted <i>meta</i> - <i>H</i> Arylation of Anisole Derivatives via Palladium/Norbornene Catalysis. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
33	Mixed assembly of ferrocene/porphyrin onto carbon nanotube arrays towards multibit information storage. , 2008, , .		1
34	Surface mounted porphyrin-nanotube arrays: Towards energy-harvesting surfaces. , 2008, , .		1
35	A chromatography-free synthesis of <i>meso</i> -tetrakis(4-formylphenyl)porphyrin and <i>meso</i> -tetrakis(3-formylphenyl)porphyrin: Versatile syntheses in supramolecular and macromolecular chemistry. <i>Journal of Porphyrins and Phthalocyanines</i> , 2022, 26, 427-433.	0.4	1
36	Application of Multiporphyrin Arrays to Solar Energy Conversion. , 2012, , 439-498.		1

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37	Multistep photoinduced electron transfer processes in a self-assembled ternary array - Towards precise nanofabrication of efficient organic solar cells. , 2008, , .		0
38	Aqueous Biphasic Dye-Sensitized Photosynthesis Cells for TEMPO-Based Oxidation of Glycerol. Angewandte Chemie, 0, , .	1.6	0