

Siby Mathew

List of Publications by Year in descending order

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18
papers

342
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687363

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#	ARTICLE	IF	CITATIONS
1	One Electron-Initiated Two-Electron Oxidation of Water by Aluminum Porphyrins with Earth's Most Abundant Metal. <i>ChemSusChem</i> , 2017, 10, 1909-1915.	6.8	41
2	Alternative route to bypass the bottle-neck of water oxidation: Two-electron oxidation of water catalyzed by earth-abundant metalloporphyrins. <i>Coordination Chemistry Reviews</i> , 2018, 377, 64-72.	18.8	34
3	1 ³ / ₄ Artificial Photosynthesis Sensitized by Metal Complexes: Utilization of a Ubiquitous Element. <i>Electrochemistry</i> , 2014, 82, 475-485.	1.4	32
4	Water Splitting on Aluminum Porphyrins To Form Hydrogen and Hydrogen Peroxide by One Photon of Visible Light. <i>ACS Applied Energy Materials</i> , 2019, 2, 8045-8051.	5.1	29
5	Promotive Effect of Bicarbonate Ion on Two-Electron Water Oxidation to Form H ₂ O ₂ Catalyzed by Aluminum Porphyrins. <i>ChemSusChem</i> , 2019, 12, 1939-1948.	6.8	29
6	Two-electron oxidation of water to form hydrogen peroxide catalysed by silicon-porphyrins. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1966-1973.	4.9	24
7	Two-Electron Oxidation of Water Through One-Photon Excitation of Aluminium Porphyrins: Molecular Mechanism and Detection of Key Intermediates. <i>ChemPhotoChem</i> , 2018, 2, 240-248.	3.0	21
8	Protolytic behavior of axially coordinated hydroxy groups of Tin(IV) porphyrins as promising molecular catalysts for water oxidation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 358, 402-410.	3.9	20
9	Protolytic behavior of water-soluble zinc(II) porphyrin and the electrocatalytic two-electron water oxidation to form hydrogen peroxide. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 400, 112619.	3.9	19
10	Photochemical oxygenation of cyclohexene with water sensitized by aluminium(III) porphyrins with visible light. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 313, 137-142.	3.9	16
11	Two-electron oxidation of water to form hydrogen peroxide initiated by one-electron oxidation of Tin (IV)-porphyrins. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 401, 112732.	3.9	16
12	Photochemical hydrogen evolution on metal ion surface-grafted TiO ₂ -particles prepared by sol/gel method without calcination. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 358, 386-394.	3.9	15
13	How one-photon can induce water splitting into hydrogen peroxide and hydrogen by aluminum porphyrins. Rationale of the thermodynamics. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1945-1953.	4.9	15
14	One-Pot Facile Synthesis of Water-Soluble Cationic Aluminum(III) Porphyrins in a Unique Heterogeneous System at Ambient Temperature. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 334-336.	3.2	11
15	How does the tin(IV)-insertion to porphyrins proceed in water at ambient temperature?: Re-investigation by time dependent ¹ H NMR and detection of intermediates. <i>Inorganica Chimica Acta</i> , 2018, 482, 914-924.	2.4	9
16	Facile Synthesis of Water-Soluble Cationic Tin(IV) Porphyrins and Water-Insoluble Tin(IV) Porphyrins in Water at Ambient Temperature. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 902-904.	3.2	6
17	Acid-base equilibria of axial ligand and peripheral pyridyl group with stepwise formation of nine species of aluminum (III) tetra(4-pyridyl) porphyrin. <i>Inorganica Chimica Acta</i> , 2021, 526, 120529.	2.4	5
18	One Electron-Initiated Two-Electron Oxidation of Water by Aluminum Porphyrins with Earth's Most Abundant Metal. <i>ChemSusChem</i> , 2017, 10, 1860-1860.	6.8	0