Frederic Sauvage

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Study of the Insertion/Deinsertion Mechanism of Sodium into Na0.44MnO2. Inorganic Chemistry, 2007, 46, 3289-3294.	1.9	423
2	Dye-Sensitized Solar Cells Employing a Single Film of Mesoporous TiO ₂ Beads Achieve Power Conversion Efficiencies Over 10%. ACS Nano, 2010, 4, 4420-4425.	7.3	412
3	Hierarchical TiO ₂ Photoanode for Dye-Sensitized Solar Cells. Nano Letters, 2010, 10, 2562-2567.	4.5	331
4	Regenerative PbS and CdS Quantum Dot Sensitized Solar Cells with a Cobalt Complex as Hole Mediator. Langmuir, 2009, 25, 7602-7608.	1.6	270
5	Poreâ€Filling of Spiroâ€OMeTAD in Solidâ€State Dye Sensitized Solar Cells: Quantification, Mechanism, and Consequences for Device Performance. Advanced Functional Materials, 2009, 19, 2431-2436.	7.8	258
6	Mixed Dimensional 2D/3D Hybrid Perovskite Absorbers: The Future of Perovskite Solar Cells?. Advanced Functional Materials, 2019, 29, 1806482.	7.8	257
7	Doping a TiO ₂ Photoanode with Nb ⁵⁺ to Enhance Transparency and Charge Collection Efficiency in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 15849-15856.	1.5	153
8	Effect of Sensitizer Adsorption Temperature on the Performance of Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2011, 133, 9304-9310.	6.6	143
9	Symmetric vs. asymmetric squaraines as photosensitisers in mesoscopic injection solar cells: a structure–property relationship study. Chemical Communications, 2012, 48, 2782.	2.2	79
10	Effect of texture on the electrochemical properties of LiFePO thin films. Solid State Ionics, 2005, 176, 1869-1876.	1.3	77
11	Study of the potentiometric response towards sodium ions of Na0.44â^'xMnO2 for the development of selective sodium ion sensors. Sensors and Actuators B: Chemical, 2007, 120, 638-644.	4.0	76
12	Butyronitrile-Based Electrolyte for Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2011, 133, 13103-13109.	6.6	75
13	Lithium Insertion / De-Insertion Properties of π-Extended Naphthyl-Based Dicarboxylate Electrode Synthesized by Freeze-Drying. Journal of the Electrochemical Society, 2014, 161, A46-A52.	1.3	74
14	Ga ³⁺ and Y ³⁺ Cationic Substitution in Mesoporous TiO ₂ Photoanodes for Photovoltaic Applications. Journal of Physical Chemistry C, 2011, 115, 9232-9240.	1.5	73
15	Toward Sustainable, Colorless, and Transparent Photovoltaics: State of the Art and Perspectives for the Development of Selective Nearâ€Infrared Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2021, 11, 2101598.	10.2	73
16	Room-Temperature Synthesis Leading to Nanocrystalline Ag ₂ V ₄ O ₁₁ . Journal of the American Chemical Society, 2010, 132, 6778-6782.	6.6	72
17	Tunable Redox Potential, Optical Properties, and Enhanced Stability of Modified Ferrocene-Based Complexes. ACS Omega, 2019, 4, 14780-14789.	1.6	71
18	Hyper-conjugated lithium carboxylate based on a perylene unit for high-rate organic lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 18225-18228.	5.2	69

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19	Transparent and Colorless Dye-Sensitized Solar Cells Exceeding 75% Average Visible Transmittance. Jacs Au, 2021, 1, 409-426.	3.6	66
20	Panchromatic ruthenium sensitizer based on electron-rich heteroarylvinylene ï€-conjugated quaterpyridine for dye-sensitized solar cells. Dalton Transactions, 2011, 40, 234-242.	1.6	57
21	Factors affecting the electrochemical reactivity vs. lithium of carbon-free LiFePO4 thin films. Journal of Power Sources, 2008, 175, 495-501.	4.0	50
22	Ag ₄ V ₂ O ₆ F ₂ (SVOF): A High Silver Density Phase and Potential New Cathode Material for Implantable Cardioverter Defibrillators. Inorganic Chemistry, 2008, 47, 8464-8472.	1.9	50
23	Defect Passivation via the Incorporation of Tetrapropylammonium Cation Leading to Stability Enhancement in Lead Halide Perovskite. Advanced Functional Materials, 2020, 30, 1909737.	7.8	50
24	Room-Temperature Synthesis of Iron-Doped Anatase TiO ₂ for Lithium-Ion Batteries and Photocatalysis. Inorganic Chemistry, 2014, 53, 10129-10139.	1.9	49
25	Unsymmetrical squaraine dimer with an extended π-electron framework: An approach in harvesting near infra-red photons for energy conversion. Dyes and Pigments, 2010, 87, 30-38.	2.0	43
26	Shedding light on the light-driven lithium ion de-insertion reaction: towards the design of a photo-rechargeable battery. Journal of Materials Chemistry A, 2017, 5, 5927-5933.	5.2	43
27	In Situ Measurements of Li Ion Battery Electrode Material Conductivity:  Application to LixCoO2and Conversion Reactions. Journal of Physical Chemistry C, 2007, 111, 9624-9630.	1.5	41
28	2D-Layered Lithium Carboxylate Based on Biphenyl Core as Negative Electrode for Organic Lithium-Ion Batteries. Chemistry of Materials, 2017, 29, 546-554.	3.2	41
29	Phase stability frustration on ultra-nanosized anatase TiO2. Scientific Reports, 2015, 5, 10928.	1.6	39
30	A Dendritic Oligothiophene Ruthenium Sensitizer for Stable Dyeâ€ S ensitized Solar Cells. ChemSusChem, 2009, 2, 761-768.	3.6	35
31	Room Temperature Synthesis of the Larger Power, High Silver Density Cathode Material Ag4V2O6F2 for Implantable Cardioverter Defibrillators. Chemistry of Materials, 2009, 21, 3017-3020.	3.2	34
32	A Review on Current Status of Stability and Knowledge on Liquid Electrolyte-Based Dye-Sensitized Solar Cells. Advances in Chemistry, 2014, 2014, 1-23.	1.1	33
33	Electrochemical Reactivity of Li2VOSiO4toward Li. Chemistry of Materials, 2006, 18, 407-412.	3.2	31
34	Structural and transport evolution in the LixAg2V4O11 system. Journal of Power Sources, 2010, 195, 1195-1201.	4.0	30
35	SiO ₂ /Ionic Liquid Hybrid Nanoparticles for Solid-State Lithium Ion Conduction. Chemistry of Materials, 2015, 27, 7926-7933.	3.2	30
36	Molecular‣evel Insight into Correlation between Surface Defects and Stability of Methylammonium Lead Halide Perovskite Under Controlled Humidity. Small Methods, 2021, 5, e2000834.	4.6	30

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37	Structural, microstructural and transport properties study of lanthanum lithium titanium perovskite thin films grown by Pulsed Laser Deposition. Thin Solid Films, 2008, 516, 1651-1655.	0.8	29
38	Transport properties and lithium insertion study in the p-type semi-conductors AgCuO2 and AgCu0.5Mn0.5O2. Journal of Solid State Chemistry, 2009, 182, 374-380.	1.4	28
39	Crystal Growth of Ag3MOxF6â^'x(M= V,x= 2;M= Mo,x= 3). Crystal Growth and Design, 2010, 10, 4868-4873.	1.4	28
40	Interface Stability of a TiO ₂ /3â€Methoxypropionitrileâ€Based Electrolyte: First Evidence for Solid Electrolyte Interphase Formation and Implications. ChemPhysChem, 2014, 15, 1126-1137.	1.0	26
41	Investigation on the Interface Modification of TiO ₂ Surfaces by Functional Coâ€Adsorbents for Highâ€Efficiency Dyeâ€Sensitized Solar Cells. ChemPhysChem, 2017, 18, 2724-2731.	1.0	26
42	Gold Catalysis and Photoactivation: A Fast and Selective Procedure for the Oxidation of Free Sugars. ACS Catalysis, 2018, 8, 1635-1639.	5.5	26
43	Effect of standard light illumination on electrolyte's stability of lithium-ion batteries based on ethylene and di-methyl carbonates. Scientific Reports, 2019, 9, 135.	1.6	26
44	Fineâ€Tuning of Triarylamineâ€Based Photosensitizers for Dyeâ€Sensitized Solar Cells. ChemSusChem, 2011, 4, 731-736.	3.6	25
45	Dicyanovinyl and Cyano-Ester Benzoindolenine Squaraine Dyes: The Effect of the Central Functionalization on Dye-Sensitized Solar Cell Performance. Energies, 2016, 9, 486.	1.6	25
46	Origin of electrochemical reactivity enhancement of post-annealed LiFePO4 thin films: Preparation of heterosite-type FePO4. Solid State Ionics, 2007, 178, 145-152.	1.3	24
47	Low-temperature electrodeposition approach leading to robust mesoscopic anatase TiO2 films. Scientific Reports, 2016, 6, 21588.	1.6	22
48	Lightâ€Induced Charge Separation in Mixed Electronic/Ionic Semiconductor Driving Lithiumâ€Ion Transfer for Photoâ€Rechargeable Electrode. Advanced Sustainable Systems, 2018, 2, 1700166.	2.7	20
49	Roomâ€∎emperature Synthesis of High Surface Area Anatase TiO ₂ Exhibiting a Complete Lithium Insertion Solid Solution. Particle and Particle Systems Characterization, 2013, 30, 1093-1104.	1.2	18
50	Nature of Paramagnetic Species in Nitrogen-Doped SnO ₂ : A Combined Electron Paramagnetic Resonance and Density Functional Theory Study. Journal of Physical Chemistry C, 2015, 119, 26895-26903.	1.5	18
51	Electrical Properties of <scp><scp>Nb</scp></scp> â€; <scp><scp>Ga</scp></scp> â€; and <scp><scp>Y</scp></scp> â€bubstituted Nanocrystalline Anatase <scp>TiO</scp> scp>2Prepared by Hydrothermal Synthesis. Journal of the American Ceramic Society 2012, 95, 3192-3196	1.9	16
52	Passing the limit of electrodeposition: â€~Gas template' H2 nanobubbles for growing highly crystalline nanoporous ZnO. Nano Energy, 2012, 1, 742-750.	8.2	14
53	Ag ₆ Mo ₂ O ₇ F ₃ Cl: A New Silver Cathode Material for Enhanced ICD Primary Lithium Batteries. Inorganic Chemistry, 2010, 49, 6461-6467.	1.9	13
54	Wide bandgap halide perovskite absorbers for semi-transparent photovoltaics: From theoretical design to modules. Nano Energy, 2022, 101, 107560.	8.2	12

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55	Insights into the potentiometric response behaviour vs. Li+ of LiFePO4 thin films in aqueous medium. Analytica Chimica Acta, 2008, 622, 163-168.	2.6	11
56	Electrolyte containing lithium cation in squaraine-sensitized solar cells: interactions and consequences for performance and charge transfer dynamics. Physical Chemistry Chemical Physics, 2017, 19, 27670-27681.	1.3	11
57	Mesoscale Texturation of Organic-Based Negative Electrode Material through in Situ Proton Reduction of Conjugated Carboxylic Acid. Chemistry of Materials, 2019, 31, 6224-6230.	3.2	11
58	Preparation and electrochemical properties of nano-sized cryptomelane particles for the formation of potentiometric potassium ion sensors. Mikrochimica Acta, 2009, 164, 363-369.	2.5	9
59	Photocatalyzed Transformation of Free Carbohydrates. Catalysts, 2018, 8, 672.	1.6	9
60	A Drift-Diffusion Study on Charge Unbalancing Effects in Dye-Sensitized Solar Cells. Journal of the Electrochemical Society, 2015, 162, H753-H758.	1.3	8
61	Insight on the Contribution of Plasmons to Goldâ€Catalyzed Solarâ€Driven Selective Oxidation of Glucose under Oxygen. Solar Rrl, 2020, 4, 2000084.	3.1	8
62	A multi-technique comparison of the electronic properties of pristine and nitrogen-doped polycrystalline SnO ₂ . Physical Chemistry Chemical Physics, 2016, 18, 22617-22627.	1.3	7
63	ZnO Nanowires as a Promotor of High Photoinduced Efficiency and Voltage Gain for Cathode Battery Recharging. ACS Applied Energy Materials, 2019, 2, 6254-6262.	2.5	7
64	Empowering organicâ€based negative electrode material based on conjugated lithium carboxylate through molecular design. ChemSusChem, 2020, 13, 2321-2327.	3.6	7
65	Moistureâ€Induced Nonâ€Equilibrium Phase Segregation in Triple Cation Mixed Halide Perovskite Monitored by <i>In Situ</i> Characterization Techniques and Solidâ€State NMR. Energy and Environmental Materials, 2023, 6, .	7.3	7
66	Structural and optical characterization of electrodeposited CdSe in mesoporous anatase TiO2for regenerative quantum-dot-sensitized solar cells. Nanotechnology, 2012, 23, 395401.	1.3	6
67	Electrodeposition of TiO2 Using Ionic Liquids. ECS Electrochemistry Letters, 2014, 3, D16-D18.	1.9	6
68	Consequences of Solid Electrolyte Interphase (SEI) Formation upon Aging on Charge-Transfer Processes in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2016, 120, 18991-18998.	1.5	6
69	Epitaxial TiO2 Shell Grown by Atomic Layer Deposition on ZnO Nanowires Using a Double-Step Process and Its Beneficial Passivation Effect. Journal of Physical Chemistry C, 2020, 124, 13447-13455.	1.5	6
70	New iodide-based amino acid molecules for more sustainable electrolytes in dye-sensitized solar cells. Green Chemistry, 2018, 20, 1059-1064.	4.6	5
71	Pulsed laser deposition and potentiometric response towards silver ions of β-AgCuPO4 thin films. Electrochimica Acta, 2005, 50, 2507-2513.	2.6	4
72	Formation of autonomous ion sensors based on ion insertion-type materials. Journal of Applied Electrochemistry, 2008, 38, 803-808.	1.5	3

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73	Towards Renewable Iodide Sources for Electrolytes in Dye-Sensitized Solar Cells. Energies, 2016, 9, 241.	1.6	3
74	A Holistic Study on the Effect of Annealing Temperature and Time on CH3NH3PbI3-Based Perovskite Solar Cell Characteristics. Frontiers in Energy Research, 2021, 9, .	1.2	3
75	Stark-Field Effect in Nanocrystalline Anatase TiO ₂ Ruling Miscibility Gap and Electrochemical Performances of Carbon-Free Electrodes for Batteries. ACS Applied Energy Materials, 2020, 3, 8706-8715.	2.5	2
76	Rationalization of excited state energy transfer in D–π–A porphyrin sensitizers enhancing efficiency in dye-sensitized solar cells. Materials Advances, 0, , .	2.6	2
77	Transparent and Colorless Dyeâ€ S ensitized Solar Cells Based on Pyrrolopyrrole Cyanine Sensitizers. Angewandte Chemie, 2022, 134, .	1.6	2
78	Poly[μ6-(naphthalene-2,6-dicarboxylato)-bis(aqualithium)]. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, m288-m288.	0.2	0
79	Low-Cost Electricity Production from Sunlight: Third-Generation Photovoltaics and the Dye-Sensitized Solar Cell. , 2016, , 93-153.		0
80	Ultrafast spectroscopy of transparent dye-sensitized solar cells designed for the near-infrared. , 2020, , .		0