

Matteo Bonomo

List of Publications by Citations

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59
papers

1,101
citations

18
h-index

30
g-index

64
ext. papers

1,543
ext. citations

5.5
avg, IF

5.33
L-index

#	Paper	IF	Citations
59	Recent advances in eco-friendly and cost-effective materials towards sustainable dye-sensitized solar cells. <i>Green Chemistry</i> , 2020 , 22, 7168-7218	10	147
58	Hydrogel Electrolytes Based on Xanthan Gum: Green Route towards Stable Dye-Sensitized Solar Cells. <i>Nanomaterials</i> , 2020 , 10,	5.4	84
57	Nanostructured Semiconductor Materials for Dye-Sensitized Solar Cells. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-31	3.2	71
56	Photoanodes for Aqueous Solar Cells: Exploring Additives and Formulations Starting from a Commercial TiO Paste. <i>ChemSusChem</i> , 2020 , 13, 6562-6573	8.3	52
55	Synthesis and characterization of NiO nanostructures: a review. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	46
54	Nanostructured p-Type Semiconductor Electrodes and Photoelectrochemistry of Their Reduction Processes. <i>Energies</i> , 2016 , 9, 373	3.1	41
53	Beneficial Effect of Electron-Withdrawing Groups on the Sensitizing Action of Squaraines for p-Type Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16340-16353	3.8	41
52	Lignin-Based Polymer Electrolyte Membranes for Sustainable Aqueous Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8550-8560	8.3	39
51	Xanthan-Based Hydrogel for Stable and Efficient Quasi-Solid Truly Aqueous Dye-Sensitized Solar Cell with Cobalt Mediator. <i>Solar Rrl</i> , 2021 , 5, 2000823	7.1	38
50	Electrochemical and Photoelectrochemical Properties of Screen-Printed Nickel Oxide Thin Films Obtained from Precursor Pastes with Different Compositions. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H137-H147	3.9	35
49	Adsorption Behavior of I and I Ions at a Nanoporous NiO/Acetonitrile Interface Studied by X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 2016 , 32, 11540-11550	4	29
48	Electrochemical and Photoelectrochemical Properties of Nickel Oxide (NiO) With Nanostructured Morphology for Photoconversion Applications. <i>Frontiers in Chemistry</i> , 2018 , 6, 601	5	29
47	Surface properties of nanostructured NiO undergoing electrochemical oxidation in 3-methoxy-propionitrile. <i>Applied Surface Science</i> , 2017 , 403, 441-447	6.7	24
46	KuQuinones as sensitizers for NiO based p-type dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2017 , 41, 2769-2779	3.6	22
45	X-Ray structure and ionic conductivity studies of anhydrous and hydrated choline chloride and oxalic acid deep eutectic solvents. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 30120-30124	3.6	22
44	Integration of graphene onto silicon through electrochemical reduction of graphene oxide layers in non-aqueous medium. <i>Applied Surface Science</i> , 2018 , 445, 404-414	6.7	21
43	Poly(3,4-ethylenedioxythiophene) in Dye-Sensitized Solar Cells: Toward Solid-State and Platinum-Free Photovoltaics. <i>Advanced Sustainable Systems</i> , 2100025	5.9	21

42	Intriguing transport dynamics of ethylammonium nitrate-acetonitrile binary mixtures arising from nano-inhomogeneity. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27212-27220	3.6	19
41	Electrochemically Deposited NiO Films as a Blocking Layer in n-Type Dye-Sensitized Solar Cells with an Impressive 45% Fill Factor. <i>Nanomaterials</i> , 2020 , 10,	5.4	18
40	New pyran-based dyes as efficient sensitizers of p-type dye-sensitized solar cells. <i>Solar Energy</i> , 2018 , 169, 237-241	6.8	16
39	. <i>Advanced Energy Materials</i> , 2100785	21.8	16
38	Cobalt Sulfide as Counter Electrode in p-Type Dye-Sensitized Solar Cells. <i>ChemistrySelect</i> , 2016 , 1, 2808-2815	2.8	16
37	Effect of Alkyl Chain Length on the Sensitizing Action of Substituted Non-Symmetric Squaraines for p-Type Dye-Sensitized Solar Cells. <i>ChemElectroChem</i> , 2017 , 4, 2385-2397	4.3	14
36	Impact of P3HT Regioregularity and Molecular Weight on the Efficiency and Stability of Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 5061-5073	8.3	14
35	X-ray photoelectron spectroscopy investigation of nanoporous NiO electrodes sensitized with Erythrosine B. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 532, 464-471	5.1	12
34	Pristine and Al-doped hematite printed films as photoanodes of p-type dye-sensitized solar cells. <i>Journal of Nanoparticle Research</i> , 2017 , 19, 1	2.3	12
33	Thermosetting Polyurethane Resins as Low-Cost, Easily Scalable, and Effective Oxygen and Moisture Barriers for Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 54862-54875	9.5	12
32	First Examples of Pyran Based Colorants as Sensitizing Agents of p-Type Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F1412-F1418	3.9	11
31	New pyran-based molecules as both n- and p-type sensitizers in semi-transparent Dye Sensitized Solar Cells. <i>Dyes and Pigments</i> , 2020 , 175, 108140	4.6	11
30	Study of the Influence of the I-Based Electrolyte Composition on the Photoconversion Properties of p-Type Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H889-H896	3.9	11
29	Toward Sustainable, Colorless, and Transparent Photovoltaics: State of the Art and Perspectives for the Development of Selective Near-Infrared Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2101598	21.8	11
28	Modified P3HT materials as hole transport layers for flexible perovskite solar cells. <i>Journal of Power Sources</i> , 2021 , 494, 229735	8.9	10
27	The unseen evidence of Reduced Ionicity: The elephant in (the) room temperature ionic liquids. <i>Journal of Molecular Liquids</i> , 2021 , 324, 115069	6	9
26	Nanocomposites of Nickel Oxide and Zirconia for the Preparation of Photocathodes with Improved Performance in p-Type Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2019 , 166, D2903-D3008	3.8	8
25	Application of Metal-Organic Frameworks and Covalent Organic Frameworks as (Photo)Active Material in Hybrid Photovoltaic Technologies. <i>Energies</i> , 2020 , 13, 5602	3.1	8

24	Assessing the Structure of Protic Ionic Liquids Based on Triethylammonium and Organic Acid Anions. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 2781-2792	3.4	8
23	Limits on the use of cobalt sulfide as anode of p-type dye-sensitized solar cells. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 215501	3	7
22	In-Depth Physico-Chemical and Structural Investigation of a Dicarboxylic Acid/Choline Chloride Natural Deep Eutectic Solvent (NADES): A Spotlight on the Importance of a Rigorous Preparation Procedure. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 ,	8.3	7
21	A combined electrochemical, infrared and EDXD tool to disclose Deep Eutectic Solvents formation when one precursor is liquid: Glyceline as case study. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114292	6	7
20	Methoxy-substituted copper complexes as possible redox mediators in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2021 , 45, 15303-15311	3.6	7
19	Effect of Sodium Hydroxide Pretreatment of NiOx Cathodes on the Performance of Squaraine-Sensitized p-Type Dye-Sensitized Solar Cells. <i>ChemistrySelect</i> , 2018 , 3, 1066-1075	1.8	6
18	Oxidative dissolution of NiO in aqueous electrolyte: An impedance study. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 816, 205-214	4.1	6
17	Dopant-Free All-Organic Small-Molecule HTMs for Perovskite Solar Cells: Concepts and Structure-Property Relationships. <i>Energies</i> , 2021 , 14, 2279	3.1	6
16	Xanthan-Based Hydrogel for Stable and Efficient Quasi-Solid Truly Aqueous Dye-Sensitized Solar Cell with Cobalt Mediator. <i>Solar Rrl</i> , 2021 , 5, 2170074	7.1	6
15	Sodium Hydroxide Pretreatment as an Effective Approach to Reduce the Dye/Holes Recombination Reaction in P-Type DSCs. <i>Frontiers in Chemistry</i> , 2019 , 7, 99	5	5
14	Influence of the Conditions of Sensitization on the Characteristics of p-DSCs Sensitized with Asymmetric Squaraines. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H1099-H1111	3.9	5
13	Statistic-Driven Proton Transfer Affecting Nanoscopic Organization in an Ethylammonium Nitrate Ionic Liquid and 1,4-Diaminobutane Binary Mixture: A Steamy Pizza Model. <i>Symmetry</i> , 2019 , 11, 1425	2.7	5
12	First Evidence of Electrode Reconstruction in Mesoporous NiO After Operation as Photocathode of Dye-Sensitized Solar Cells. <i>ChemistrySelect</i> , 2018 , 3, 6729-6736	1.8	5
11	How do arenediazonium salts behave in deep eutectic solvents? A combined experimental and computational approach. <i>Journal of Molecular Liquids</i> , 2021 , 339, 116743	6	5
10	Contact Glow Discharge Electrolysis: Effect of Electrolyte Conductivity on Discharge Voltage. <i>Catalysts</i> , 2020 , 10, 1104	4	4
9	Polymeric Dopant-Free Hole Transporting Materials for Perovskite Solar Cells: Structures and Concepts towards Better Performances. <i>Polymers</i> , 2021 , 13,	4.5	4
8	Effect of Sensitization on the Electrochemical Properties of Nanostructured NiO. <i>Coatings</i> , 2018 , 8, 232	2.9	3
7	Emerging Photovoltaic Technologies and Eco-Design Criticisms and Potential Improvements		2

6	Towards an ink-based method for the deposition of $Zn_xCd_{1-x}S$ buffer layers in CZTS solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 2575-2582	2.1	2
5	Adsorption Dynamics of Redox Active Species onto Polarized Surfaces of Sensitized NiO. <i>ACS Omega</i> , 2019 , 4, 1690-1699	3.9	2
4	Novel DPP derivatives functionalized with auxiliary electron-acceptor groups and characterized by narrow bandgap and ambipolar charge transport properties. <i>Dyes and Pigments</i> , 2021 , 186, 109026	4.6	2
3	NiO/ZrO ₂ nanocomposites as photocathodes of tandem DSCs with higher photoconversion efficiency with respect to parent single-photoelectrode p-DSCs. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 4736-4748	5.8	2
2	Copper-Free Halodediazoniating of Arenediazonium Tetrafluoroborates in Deep Eutectic Solvents-like Mixtures.. <i>Molecules</i> , 2022 , 27,	4.8	2
1	Neutron irradiated perovskite films and solar cells on PET substrates. <i>Nano Energy</i> , 2022 , 93, 106879	17.1	1