Vanira Trifiletti

List of Publications by Year
in descending order

33 papers	824 citations	471061 17 h-index	500791 28 g-index
40 all docs	40 docs citations	40 times ranked	1430 citing authors

#	Article	IF	Citations
1	Dyeâ€Sensitized Solar Cells that use an Aqueous Choline Chlorideâ€Based Deep Eutectic Solvent as Effective Electrolyte Solution. Energy Technology, 2017, 5, 345-353.	1.8	80
2	New Earth-Abundant Thin Film Solar Cells Based on Chalcogenides. Frontiers in Chemistry, 2019, 7, 297.	1.8	77
3	Tetraaryl Zn^{II} Porphyrinates Substituted at Î²â€Pyrrolic Positions as Sensitizers in Dyeâ€Sensitized Solar Cells: A Comparison with <i>meso</i>â€Disubstituted Pushâ€"Pull Zn^{II} Porphyrinates. Chemistry - A European Journal, 2013, 19, 10723-10740.	1.7	60
4	NiO/MAPbI_{3-x}Cl_{<i>x</i>}/PCBM: A Model Case for an Improved Understanding of Inverted Mesoscopic Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 4283-4289.	4.0	59
5	Simple novel cyclometallated iridium complexes for potential application in dye-sensitized solar cells. Inorganica Chimica Acta, 2012, 388, 163-167.	1.2	49
6	Thiocyanate-free cyclometalated ruthenium sensitizers for solar cells based on heteroaromatic-substituted 2-arylpyridines. Dalton Transactions, 2012, 41, 11731.	1.6	39
7	A new thiocyanate-free cyclometallated ruthenium complex for dye-sensitized solar cells: Beneficial effects of substitution on the cyclometallated ligand. Journal of Organometallic Chemistry, 2012, 714, 88-93.	0.8	38
8	Covalently Functionalized SWCNTs as Tailored p-Type Dopants for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 27966-27973.	4.0	38
9	Asymmetric Tribranched Dyes: An Intramolecular Cosensitization Approach for Dyeâ€Sensitized Solar Cells. European Journal of Organic Chemistry, 2013, 2013, 6793-6801.	1.2	36
10	Influence of Porphyrinic Structure on Electron Transfer Processes at the Electrolyte/Dye/TiO₂ Interface in PSSCs: a Comparison between meso Pushâ€"Pull and Î²-Pyrrolic Architectures. ACS Applied Materials & Interfaces, 2014, 6, 15841-15852.	4.0	32
11	Implications of TiO₂ surface functionalization on polycrystalline mixed halide perovskite films and photovoltaic devices. Journal of Materials Chemistry A, 2015, 3, 20811-20818.	5.2	31
12	Highly improved performance of ZnII tetraarylporphyrinates in DSSCs by the presence of octyloxy chains in the aryl rings. Journal of Materials Chemistry A, 2015, 3, 2954-2959.	5.2	31
13	Influence of alkoxy chain envelopes on the interfacial photoinduced processes in tetraarylporphyrin-sensitized solar cells. Physical Chemistry Chemical Physics, 2016, 18, 9577-9585.	1.3	29
14	Physicochemical Investigation of the Panchromatic Effect on Î²-Substituted Zn^{II} Porphyrinates for DSSCs: The Role of the Ï€ Bridge between a Dithienylethylene Unit and the Porphyrinic Ring. Journal of Physical Chemistry C, 2014, 118, 7307-7320.	1.5	27
15	Ruthenium oxyquinolate complexes for dye-sensitized solar cells. Inorganica Chimica Acta, 2013, 405, 98-104.	1.2	24
16	Engineering TiO₂/Perovskite Planar Heterojunction for Hysteresisâ€Less Solar Cells. Advanced Materials Interfaces, 2016, 3, 1600493.	1.9	24
17	All-Oxide pâ€"n Junction Thermoelectric Generator Based on SnO<i>_x</i> and ZnO Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 35187-35196.	4.0	21
18	Dye-sensitized solar cells containing plasma jet deposited hierarchically nanostructured TiO2 thin photoanodes. Journal of Materials Chemistry A, 2013, 1, 11665.	5.2	16

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19	Thermoelectric properties of CZTS thin films: effect of Cuâ€“Zn disorder. Physical Chemistry Chemical Physics, 2021, 23, 13148-13158.	1.3	15
20	Kesterite solar-cells by drop-casting of inorganic solâ€“gel inks. Solar Energy, 2020, 208, 532-538.	2.9	13
21	Photoluminescence study of deep donor- deep acceptor pairs in Cu2ZnSnS4. Materials Science in Semiconductor Processing, 2018, 80, 52-55.	1.9	12
22	Performance enhancement of a dye-sensitized solar cell by peripheral aromatic and heteroaromatic functionalization in di-branched organic sensitizers. New Journal of Chemistry, 2018, 42, 9281-9290.	1.4	11
23	Facile and Low-Cost Fabrication of Cu/Zn/Sn-Based Ternary and Quaternary Chalcogenides Thermoelectric Generators. ACS Applied Energy Materials, 2022, 5, 5909-5918.	2.5	11
24	Growth and Characterization of Cu2Zn1âˆ’xFexSnS4 Thin Films for Photovoltaic Applications. Materials, 2020, 13, 1471.	1.3	10
25	Molecular Doping for Hole Transporting Materials in Hybrid Perovskite Solar Cells. Metals, 2020, 10, 14.	1.0	9
26	Copper electrodeposition onto zinc for the synthesis of kesterite Cu2ZnSnS4 from a Mo/Zn/Cu/Sn precursor stack. Electrochemistry Communications, 2019, 109, 106580.	2.3	7
27	Sequential deposition of hybrid halide perovskite starting both from lead iodide and lead chloride on the most widely employed substrates. Thin Solid Films, 2018, 657, 110-117.	0.8	5
28	Dyeâ€“catalyst dyads for photoelectrochemical water oxidation based on metal-free sensitizers. RSC Advances, 2021, 11, 5311-5319.	1.7	4
29	Quasi-Zero Dimensional Halide Perovskite Derivates: Synthesis, Status, and Opportunity. Frontiers in Electronics, 0, 2, .	2.0	4
30	Band-Gap Tuning Induced by Germanium Introduction in Solution-Processed Kesterite Thin Films. ACS Omega, 2022, 7, 23445-23456.	1.6	4
31	Study of Precursorâ€Inks Designed for Highâ€Quality Cu₂ZnSnS₄ Films for Lowâ€Cost PV Application. ChemistrySelect, 2019, 4, 4905-4912.	0.7	3
32	Two-Step Synthesis of Bismuth-Based Hybrid Halide Perovskite Thin-Films. Materials, 2021, 14, 7827.	1.3	3
33	Photovoltaic characterization of di-branched organic sensitizers for DSSCs. Data in Brief, 2019, 25, 104167.	0.5	1