Danilo Dini

List of Publications by Citations

176 papers	5,074 citations	41 h-index	61 g-index
194 ext. papers	5,877 ext. citations	5.7 avg, IF	6.09 L-index

#	Paper	IF	Citations
176	Nonlinear Optical Materials for the Smart Filtering of Optical Radiation. *Chemical Reviews*, **2016**, 116, 13043-13233	68.1	329
175	Recent advances in eco-friendly and cost-effective materials towards sustainable dye-sensitized solar cells. *Green Chemistry*, **2020**, 22, 7168-7218	10	147
174	. *European Journal of Organic Chemistry*, **2001**, 2001, 3759-3769	3.2	143
173	Research Progress on Photosensitizers for DSSC. *Frontiers in Chemistry*, **2018**, 6, 481	5	132
172	A comprehensive comparison of dye-sensitized NiO photocathodes for solar energy conversion. *Physical Chemistry Chemical Physics*, **2016**, 18, 10727-38	3.6	116
171	Probing the redox states at the surface of electroactive nanoporous NiO thin films. *ACS Applied Materials & Interfaces*, **2014**, 6, 143-52	9.5	109
170	Electrochemiluminescence from Organic Emitters. *Chemistry of Materials*, **2005**, 17, 1933-1945	9.6	88
169	Conjugated macrocycles as active materials in nonlinear optical processes: optical limiting effect with phthalocyanines and related compounds. *Chemical Record*, **2002**, 2, 129-48	6.6	87
168	Hydrogel Electrolytes Based on Xanthan Gum: Green Route towards Stable Dye-Sensitized Solar Cells. *Nanomaterials*, **2020**, 10,	5.4	84
167	Soluble axially substituted phthalocyanines: Synthesis and nonlinear optical response. *Journal of Materials Science*, **2006**, 41, 2169	4.3	82
166	A comparison of the electrochromic properties of WO3 films intercalated with H+, Li+ and Na+. *Journal of Applied Electrochemistry*, **1996**, 26, 647-653	2.6	77
165	The influence of the preparation method of NiOx photocathodes on the efficiency of p-type dye-sensitized solar cells. *Coordination Chemistry Reviews*, **2015**, 304-305, 179-201	23.2	73
164	Nanostructured Semiconductor Materials for Dye-Sensitized Solar Cells. *Journal of Nanomaterials*, **2017**, 2017, 1-31	3.2	71
163	Tetra-2,3-pyrazinoporphyrazines with externally appended pyridine rings. 2. Metal complexes of tetrakis-2,3-[5,6-di(2-pyridyl)pyrazino]porphyrazine: linear and nonlinear optical properties and electrochemical behavior. *Inorganic Chemistry*, **2004**, 43, 8637-48	5.1	70
162	Porphyrazines with annulated diazepine rings. 2. Alternative synthetic route to tetrakis-2,3-(5,7-diphenyl-1,4-diazepino)porphyrazines: new metal complexes, general physicochemical data, ultraviolet-visible linear and optical limiting behavior, and electrochemical and spectroelectrochemical properties. *Journal of the American Chemical Society*, **2003**, 125, 14190-201	16.4	67
161	Phthalocyanines as materials for advanced technologies: some examples. *Journal of Porphyrins and Phthalocyanines*, **2004**, 08, 915-933	1.8	67
160	Recent progress in the development of bimetallic photocatalysts for hydrogen generation. *Dalton Transactions*, **2013**, 42, 16243-54	4.3	64

159	Synthesis and characterization of (octaaryltetraazaporphyrinato)indium(III) complexes for optical limiting. *Inorganic Chemistry*, **2003**, 42, 2683-94	5.1	64
158	Dye sensitised solar cells with nickel oxide photocathodes prepared via scalable microwave sintering. *Physical Chemistry Chemical Physics*, **2013**, 15, 2411-20	3.6	62
157	Synthesis and optical limiting properties of axially bridged phthalocyanines: [(tBu4PcGa)2O] and [(tBu4PcIn)2O]. *Chemistry - A European Journal*, **2002**, 8, 4248-54	4.8	61
156	Nonlinear optical properties of tetrapyrazinoporphyrazinato indium chloride complexes due to excited-state absorption processes. *Journal of Physical Chemistry B*, **2005**, 109, 12691-6	3.4	59
155	Progress, highlights and perspectives on NiO in perovskite photovoltaics. *Chemical Science*, **2020**, 11, 7746-7759	9.4	58
154	Perfluorinated phthalocyanines for optical limiting: Evidence for the direct correlation between substituent electron withdrawing character and the nonlinear optical effect. *Journal of Chemical Physics*, **2003**, 119, 4857-4864	3.9	57
153	Ion Migration-Induced Amorphization and Phase Segregation as a Degradation Mechanism in Planar Perovskite Solar Cells. *Advanced Energy Materials*, **2020**, 10, 2000310	21.8	56
152	Tuning optical and electronic properties in novel carbazole photosensitizers for p-type dye-sensitized solar cells. *Electrochimica Acta*, **2018**, 292, 805-816	6.7	55
151	An Easy Route for the Synthesis of New Axially Substituted Titanium(IV) Phthalocyanines. *European Journal of Organic Chemistry*, **2002**, 2002, 3756-3762	3.2	54
150	Photoanodes for Aqueous Solar Cells: Exploring Additives and Formulations Starting from a Commercial TiO Paste. *ChemSusChem*, **2020**, 13, 6562-6573	8.3	52
149	Deposition and characterization of NiOx coatings by magnetron sputtering for application in dye-sensitized solar cells. *Surface and Coatings Technology*, **2010**, 204, 2729-2736	4.4	49
148	Fabrication of Efficient NiO Photocathodes Prepared via RDS with Novel Routes of Substrate Processing for p-Type Dye-Sensitized Solar Cells. *ChemElectroChem*, **2014**, 1, 384-391	4.3	47
147	Synthesis, characterization and optical limiting properties of a gallium phthalocyanine dimer. *Journal of Materials Chemistry*, **2005**, 15, 683		47
146	Dual effect of humidity on cesium lead bromide: enhancement and degradation of perovskite films. *Journal of Materials Chemistry A*, **2019**, 7, 12292-12302	13	46
145	Synthesis of a Bisphthalocyanine and Its Nonlinear Optical Properties. *European Journal of Organic Chemistry*, **2005**, 2005, 3499-3509	3.2	46
144	Phthalocyanines and related compounds as switchable materials upon strong irradiation: the molecular engineering behind the optical limiting effect. *Solid State Ionics*, **2003**, 165, 289-303	3.3	45
143	Synthesis and nonlinear optical properties of fluorine-containing naphthalocyanines. *Chemistry - A European Journal*, **2003**, 9, 2758-62	4.8	44
142	Isoindigo derivatives for application in p-type dye sensitized solar cells. *RSC Advances*, **2015**, 5, 85530-85539	3.7	43

141	Self-Healing of Gold Nanoparticles in the Presence of Zinc Phthalocyanines and Their Very Efficient Nonlinear Absorption Performances. *Journal of Physical Chemistry C*, **2009**, 113, 8688-8695	3.8	43
140	Application of a novel microwave plasma treatment for the sintering of nickel oxide coatings for use in dye-sensitized solar cells. *Surface and Coatings Technology*, **2011**, 205, S245-S249	4.4	42
139	Nonlinear optical effects related to saturable and reverse saturable absorption by subphthalocyanines at 532 nm. *Chemical Communications*, **2005**, 3796-8	5.8	42
138	Stability and Dark Hysteresis Correlate in NiO-Based Perovskite Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1901642	21.8	41
137	Polymer Films on Electrodes. 28. Scanning Electrochemical Microscopy Study of Electron Transfer at Poly(alkylterthiophene) Films. *Chemistry of Materials*, **1998**, 10, 2120-2126	9.6	41
136	Nanostructured p-Type Semiconductor Electrodes and Photoelectrochemistry of Their Reduction Processes. *Energies*, **2016**, 9, 373	3.1	41
135	Beneficial Effect of Electron-Withdrawing Groups on the Sensitizing Action of Squaraines for p-Type Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2016**, 120, 16340-16353	3.8	41
134	Comparison of the photoelectrochemical properties of RDS NiO thin films for p-type DSCs with different organic and organometallic dye-sensitizers and evidence of a direct correlation between cell efficiency and charge recombination. *Journal of Solid State Electrochemistry*, **2015**, 19, 975-986	2.6	40
133	Lignin-Based Polymer Electrolyte Membranes for Sustainable Aqueous Dye-Sensitized Solar Cells. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 8550-8560	8.3	39
132	Xanthan-Based Hydrogel for Stable and Efficient Quasi-Solid Truly Aqueous Dye-Sensitized Solar Cell with Cobalt Mediator. *Solar Rrl*, **2021**, 5, 2000823	7.1	38
131	Nonlinear transmission of a tetrabrominated naphthalocyaninato indium chloride. *Journal of Physical Chemistry B*, **2006**, 110, 12230-9	3.4	37
130	Orientation of substituted phthalocyanines on polycrystalline gold: distinguishing between the first layers and thin films. *Chemical Physics Letters*, **2005**, 403, 1-6	2.5	37
129	Photoelectrochemical characterization of squaraine-sensitized nickel oxide cathodes deposited via screen-printing for p -type dye-sensitized solar cells. *Applied Surface Science*, **2015**, 356, 911-920	6.7	36
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127	Electrochemical and Photoelectrochemical Properties of Screen-Printed Nickel Oxide Thin Films Obtained from Precursor Pastes with Different Compositions. *Journal of the Electrochemical Society* , **2017**, 164, H137-H147	3.9	35
126	Large two-photon absorption cross sections of hemiporphyrazines in the excited state: the multiphoton absorption process of hemiporphyrazines with different central metals. *Journal of the American Chemical Society*, **2008**, 130, 12290-8	16.4	35
125	Axial halogen ligand effect on photophysics and optical power limiting of some indium naphthalocyanines. *Journal of Physical Chemistry A*, **2007**, 111, 3263-70	2.8	35
124	Spray-deposited NiO x films on ITO substrates as photoactive electrodes for p-type dye-sensitized solar cells. *Journal of Applied Electrochemistry*, **2013**, 43, 191-197	2.6	34

123	Synthesis of axially substituted tetrapyrazinoporphyrazinato metal complexes for optical limiting and study of their photophysical properties. *Journal of Physical Chemistry B*, **2005**, 109, 5425-32	3.4	34
122	Electrochemical impedance spectroscopy of polyalkylterthiophenes. *Electrochimica Acta*, **1999**, 44, 4189-4193	6.7	33
121	Tetra-2,3-pyrazinoporphyrazines with externally appended pyridine rings. 6. Chemical and redox properties and highly effective photosensitizing activity for singlet oxygen production of penta- and monopalladated complexes in dimethylformamide solution. *Inorganic Chemistry*, **2008**, 47, 8757-66	5.1	32
120	Tetrabrominated lead naphthalocyanine for optical power limiting. *Chemistry - A European Journal*, **2010**, 16, 1212-20	4.8	31
119	Fluorinated Naphthalocyanines Displaying Simultaneous Reverse Saturable Absorption at 532 and 1064 nm. *Advanced Materials*, **2005**, 17, 875-879	24	31
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117	Photophysics and nonlinear optical properties of tetra- and octabrominated silicon naphthalocyanines. *Journal of Physical Chemistry A*, **2008**, 112, 472-80	2.8	30
116	Adsorption Behavior of I and I Ions at a Nanoporous NiO/Acetonitrile Interface Studied by X-ray Photoelectron Spectroscopy. *Langmuir*, **2016**, 32, 11540-11550	4	29
115	From Bulk to Surface: Sodium Treatment Reduces Recombination at the Nickel Oxide/Perovskite Interface. *Advanced Materials Interfaces*, **2019**, 6, 1900789	4.6	29
114	Molecular orientation of substituted phthalocyanines: Influence of the substrate roughness. *Surface Science*, **2006**, 600, 4024-4029	1.8	29
113	Excited state properties of monomeric and dimeric axially bridged indium phthalocyanines upon UV-Vis laser irradiation. *Chemical Communications*, **2004**, 340-1	5.8	29
112	Electrochemical and Photoelectrochemical Properties of Nickel Oxide (NiO) With Nanostructured Morphology for Photoconversion Applications. *Frontiers in Chemistry*, **2018**, 6, 601	5	29
111	Tetra-t-butyl magnesium phthalocyanine on gold: electronic structure and molecular orientation. *Journal of Chemical Physics*, **2005**, 122, 064710	3.9	28
110	Electrochemical characterization of NiO electrodes deposited via a scalable powder microblasting technique. *Journal of Electroanalytical Chemistry*, **2013**, 689, 185-192	4.1	27
109	Synthesis, DFT calculations, linear and nonlinear optical properties of binuclear phthalocyanine gallium chloride. *Journal of Molecular Modeling*, **2006**, 12, 543-50	2	26
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105	The electrochromic response of tungsten bronzes MxWO3 with different ions and insertion rates. *Solar Energy Materials and Solar Cells*, **1995**, 39, 301-307	6.4	25
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102	Excited state localization and internuclear interactions in asymmetric ruthenium(II) and osmium(II) bpy/tpy based dinuclear compounds. *Inorganic Chemistry*, **2010**, 49, 2799-807	5.1	23
101	Demonstration of the optical limiting effect for an hemiporphyrazine. *Chemical Communications*, **2006**, 2394-6	5.8	23
100	Physical Properties of Phthalocyanine-based Materials **2003**, 1-36		23
99	KuQuinones as sensitizers for NiO based p-type dye-sensitized solar cells. *New Journal of Chemistry*, **2017**, 41, 2769-2779	3.6	22
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97	Biologically friendly room temperature ionic liquids and nanomaterials for the development of innovative enzymatic biosensors: Part II. *Talanta*, **2019**, 194, 26-31	6.2	22
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94	In-situ detection of stress in oxide films during Si electrodissolution in acidic fluoride electrolytes. *Journal of Electroanalytical Chemistry*, **1999**, 474, 182-187	4.1	21
93	Poly(3,4-ethylenedioxythiophene) in Dye-Sensitized Solar Cells: Toward Solid-State and Platinum-Free Photovoltaics. *Advanced Sustainable Systems*,2100025	5.9	21
92	NLO Behavior of Polymers Containing Y-Shaped Chromophores. *Macromolecular Chemistry and Physics*, **2007**, 208, 1900-1907	2.6	20
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90	Intriguing transport dynamics of ethylammonium nitrate-acetonitrile binary mixtures arising from nano-inhomogeneity. *Physical Chemistry Chemical Physics*, **2017**, 19, 27212-27220	3.6	19
89	Electrochemical Characterization of Nanoporous Nickel Oxide Thin Films Spray-Deposited onto Indium-Doped Tin Oxide for Solar Conversion Scopes. *Advances in Condensed Matter Physics*, **2015**, 2015, 1-18	1	19
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85	New pyran-based dyes as efficient sensitizers of p-type dye-sensitized solar cells. *Solar Energy*, **2018**, 169, 237-241	6.8	16
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83	Stress in thin films of metal oxide electrodes for intercalation reactions. *Electrochimica Acta*, **1998**, 43, 2919-2923	6.7	16
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77	Synthesis and high ranked NLT properties of new sulfonamide-substituted indium phthalocyanines. *Inorganica Chimica Acta*, **2010**, 363, 3945-3950	2.7	15
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73	Electrochemical Growth of Polyalkylthiophenes. In Situ Characterization of Deposition Processes. *Electrochemical and Solid-State Letters*, **1999**, 1, 217		14
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71	Deep eutectic solvents (DES) as green extraction media for antioxidants electrochemical quantification in extra-virgin olive oils. *Talanta*, **2020**, 215, 120880	6.2	13
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69	X-ray photoelectron spectroscopy investigation of nanoporous NiO electrodes sensitized with Erythrosine B. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 532, 464-471	5.1	12
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63	First Examples of Pyran Based Colorants as Sensitizing Agents ofp-Type Dye-Sensitized Solar Cells. *Journal of the Electrochemical Society*, **2017**, 164, F1412-F1418	3.9	11
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56	Stress changes in electrochromic thin film electrodes:. *Solar Energy Materials and Solar Cells*, **1999**, 56, 213-221	6.4	11
55	New pyran-based molecules as both n- and p-type sensitizers in semi-transparent Dye Sensitized Solar Cells. *Dyes and Pigments*, **2020**, 175, 108140	4.6	11
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40	A combined electrochemical, infrared and EDXD tool to disclose Deep Eutectic Solvents formation when one precursor is liquid: Glyceline as case study. *Journal of Molecular Liquids*, **2020**, 319, 114292	6	7
39	Inverted perovskite solar cells with transparent hole transporting layer based on semiconducting nickel oxide **2018**,		7
38	Use of the bending-beam-method for the study of the anodic oxidation of Si in dilute fluoride media. *Electrochimica Acta*, **2000**, 45, 4607-4613	6.7	7
37	Methoxy-substituted copper complexes as possible redox mediators in dye-sensitized solar cells. *New Journal of Chemistry*, **2021**, 45, 15303-15311	3.6	7
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31	Dopant-Free All-Organic Small-Molecule HTMs for Perovskite Solar Cells: Concepts and StructureProperty Relationships. *Energies*, **2021**, 14, 2279	3.1	6
30	Xanthan-Based Hydrogel for Stable and Efficient Quasi-Solid Truly Aqueous Dye-Sensitized Solar Cell with Cobalt Mediator. *Solar Rrl*, **2021**, 5, 2170074	7.1	6
29	Sodium Hydroxide Pretreatment as an Effective Approach to Reduce the Dye/Holes Recombination Reaction in P-Type DSCs. *Frontiers in Chemistry*, **2019**, 7, 99	5	5
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27	Synthesis of axially substituted gallium, indium and thallium phthalocyanines with nonlinear optical properties. *Arkivoc*, **2006**, 2006, 77-96	0.9	5
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24	How do arenediazonium salts behave in deep eutectic solvents? A combined experimental and computational approach. *Journal of Molecular Liquids*, **2021**, 339, 116743	6	5
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