Giuseppe Calogero

List of Publications by Year
in descending order

61	4,123	159525 30	138417 58
papers	citations	h-index	g-index

62	62	62	4973
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anthocyanins and betalains as light-harvesting pigments for dye-sensitized solar cells. Solar Energy, 2012, 86, 1563-1575.	2.9	315
2	Vegetable-based dye-sensitized solar cells. Chemical Society Reviews, 2015, 44, 3244-3294.	18.7	304
3	Red Sicilian orange and purple eggplant fruits as natural sensitizers for dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2008, 92, 1341-1346.	3.0	282
4	Efficient Dye-Sensitized Solar Cells Using Red Turnip and Purple Wild Sicilian Prickly Pear Fruits. International Journal of Molecular Sciences, 2010, 11, 254-267.	1.8	233
5	A new type of transparent and low cost counter-electrode based on platinum nanoparticles for dye-sensitized solar cells. Energy and Environmental Science, 2011, 4, 1838.	15.6	198
6	Brownian Motion of Graphene. ACS Nano, 2010, 4, 7515-7523.	7.3	194
7	Syntheses and Crystal Structures of Dinuclear Complexes Containing d-Block and f-Block Luminophores. Sensitization of NIR Luminescence from Yb(III), Nd(III), and Er(III) Centers by Energy Transfer from Re(I)â^' and Pt(II)â^'Bipyrimidine Metal Centers. Inorganic Chemistry, 2005, 44, 61-72.	1.9	192
8	Hydrogen production from methane through catalytic partial oxidation reactions. Journal of Power Sources, 2000, 87, 28-38.	4.0	190
9	Synthesis, Characterization, Absorption Spectra, and Luminescence Properties of Organometallic Platinum(II) Terpyridine Complexes. Inorganic Chemistry, 1998, 37, 2763-2769.	1.9	164
10	Natural dye senstizers for photoelectrochemical cells. Energy and Environmental Science, 2009, 2, 1162.	15.6	162
11	A Study on Delocalization of MLCT Excited States by Rigid Bridging Ligands in Homometallic Dinuclear Complexes of Ruthenium(II). Journal of Physical Chemistry A, 1997, 101, 9061-9069.	1.1	146
12	Rotation Detection in Light-Driven Nanorotors. ACS Nano, 2009, 3, 3077-3084.	7.3	112
13	Potassium-enhanced stability of Ni/MgO catalysts in the dry-reforming of methane. Catalysis Communications, 2001, 2, 49-56.	1.6	107
14	Computational aspects of anthocyanidins and anthocyanins: A review. Food Chemistry, 2019, 297, 124898.	4.2	101
15	Absorption Spectra, Luminescence Properties, and Electrochemical Behavior of Cyclometalated Iridium(III) and Rhodium(III) Complexes with a Bis(pyridyl)triazole Ligand. Inorganic Chemistry, 1995, 34, 541-545.	1.9	100
16	Solution-processed two-dimensional materials for next-generation photovoltaics. Chemical Society Reviews, 2021, 50, 11870-11965.	18.7	96
17	Synthetic analogues of anthocyanins as sensitizers for dye-sensitized solar cells. Photochemical and Photobiological Sciences, 2013, 12, 883-894.	1.6	95
18	Re-radiation Enhancement in Polarized Surface-Enhanced Resonant Raman Scattering of Randomly Oriented Molecules on Self-Organized Gold Nanowires. ACS Nano, 2011, 5, 5945-5956.	7.3	94

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19	Brown seaweed pigment as a dye source for photoelectrochemical solar cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 117, 702-706.	2.0	75
20	A functionalized ruthenium(ii)-bis-terpyridine complex as a rod-like luminescent sensor of zinc(ii). Chemical Communications, 1998, , 2333-2334.	2.2	66
21	Assemblies of luminescent ruthenium(II)â€" and osmium(II)â€"polypyridyl complexes based on hydrogen bonding. Coordination Chemistry Reviews, 1998, 171, 481-488.	9.5	59
22	Luminescence of azobenzene derivatives induced by cyclopalladation. Chemical Physics Letters, 1997, 267, 341-344.	1.2	58
23	Metal Nanoparticles and Carbon-Based Nanostructures as Advanced Materials for Cathode Application in Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2010, 2010, 1-15.	1.4	57
24	Heteronuclear bipyrimidine-bridged Ruâ€"Ln and Osâ€"Ln dyads: low-energy³MLCT states as energy-donors to Yb(iii) and Nd(iii). Dalton Transactions, 2008, , 691-698.	1.6	50
25	Single wall carbon nanotubes deposited on stainless steel sheet substrates as novel counter electrodes for ruthenium polypyridine based dye sensitized solar cells. Dalton Transactions, 2010, 39, 2903.	1.6	48
26	Absorption spectra and photovoltaic characterization of chlorophyllins as sensitizers for dye-sensitized solar cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 132, 477-484.	2.0	40
27	Intercomponent Electronic Energy Transfer in Heteropolynuclear Complexes Containing Ruthenium- and Rhenium-Based Chromophores Bridged by an Asymmetric Quaterpyridine Ligand. Inorganic Chemistry, 1997, 36, 2601-2609.	1.9	37
28	Photoelectrochemical and spectrophotometric studies on dye-sensitized solar cells (DSCs) and stable modules (DSCMs) based on natural apocarotenoids pigments. Dyes and Pigments, 2018, 155, 75-83.	2.0	37
29	A Shape-Engineered Surface-Enhanced Raman Scattering Optical Fiber Sensor Working from the Visible to the Near-Infrared. Plasmonics, 2013, 8, 13-23.	1.8	36
30	Electronic energy transfer between ruthenium(II) and osmium(II) polypyridyl luminophores in a hydrogen-bonded supramolecular assembly. Chemical Communications, 1997, , 2181-2182.	2.2	30
31	A cyclometallated ruthenium(ii) complex with a sterically hindered ligand displaying a long-lived MLCT excited state. Chemical Communications, 1997, , 775-776.	2.2	29
32	Visible-light driven oxidation of gaseous aliphatic alcohols to the corresponding carbonyls via TiO2 sensitized by a perylene derivative. Environmental Science and Pollution Research, 2014, 21, 11135-11141.	2.7	28
33	Mono- and dinuclear complexes of ruthenium(II) and osmium(II) with a 3,5-bis(2-pyridyl)-1,2,4-triazole cyclohexyl-bridged spacer. Absorption spectra, luminescence properties, and electrochemical behavior. Inorganic Chemistry, 1993, 32, 1179-1183.	1.9	27
34	Catechol versus carboxyl linkage impact on DSSC performance of synthetic pyranoflavylium salts. Dyes and Pigments, 2019, 170, 107577.	2.0	26
35	Derivatives of luminescent metalâ€"polypyridyl complexes with pendant adenine or thymine groups: building blocks for supramolecular assemblies based on hydrogen bonding. Journal of the Chemical Society Dalton Transactions, 1997, , 727-736.	1.1	25
36	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. 2D Materials, 2019, 6, 035007.	2.0	23

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37	Universal Fabrication of Highly Efficient Plasmonic Thinâ€Films for Labelâ€Free SERS Detection. Small, 2021, 17, e2100755.	5.2	23
38	Mobilities of iodide anions in aqueous solutions for applications in natural dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2018, 20, 13038-13046.	1.3	22
39	Photoinduced Intercomponent Energy Transfer in a New Heterometallic Dinuclear Complex of Ru(II) and Os(II) with a 3,5-Bis(2-pyridyl)-1,2,4-triazole Cyclohexyl-Bridged Spacer. Inorganic Chemistry, 1995, 34, 1957-1960.	1.9	21
40	Absorption spectra, thermal analysis, photoelectrochemical characterization and stability test of vegetable-based dye-sensitized solar cells. Optical Materials, 2019, 88, 24-29.	1.7	19
41	Combined experimental and DFT-TDDFT investigation on anthocyanidins for application in dye-sensitised solar cells. Dyes and Pigments, 2017, 143, 291-300.	2.0	18
42	Electronic and charge transfer properties of bio-inspired flavylium ions for applications in TiO2-based dye-sensitized solar cells. Photochemical and Photobiological Sciences, 2017, 16, 1400-1414.	1.6	18
43	Study of the multi-equilibria of red wine colorants pyranoanthocyanins and evaluation of their potential in dye-sensitized solar cells. Solar Energy, 2019, 191, 100-108.	2.9	17
44	Near-infrared luminescence at room temperature of two new osmium(II) terdentate polypyridine complexes. Chemical Communications, 1996, , 1225.	2.2	16
45	Nanostructured anatase TiO2 densified at high pressure as advanced visible light photocatalysts. Photochemical and Photobiological Sciences, 2015, 14, 1685-1693.	1.6	15
46	Dye-sensitized solar cells based on dimethylamino-Ï€-bridge-pyranoanthocyanin dyes. Solar Energy, 2020, 206, 188-199.	2.9	15
47	Photoinduced intercomponent energy transfer in covalently-linked dinuclear complexes containing Ru(II)-bipyridine and Ru(II)-biquinoline chromophores and aromatic and aliphatic spacers. Inorganica Chimica Acta, 1996, 251, 255-264.	1.2	14
48	Bridged Phthalocyanine Systems for Sensitization of Nanocrystalline TiO2Films. International Journal of Photoenergy, 2010, 2010, 1-11.	1.4	13
49	Insights into meso-structured photoanodes based on titanium oxide thin film with high dye adsorption ability. Journal of Alloys and Compounds, 2014, 609, 116-124.	2.8	13
50	Dye-sensitized solar cells: from synthetic dyes to natural pigments. , 2020, , 107-161.		11
51	Monitoring the intramolecular charge transfer process in the Z907 solar cell sensitizer: a transient Vis and IR spectroscopy and ab initio investigation. Physical Chemistry Chemical Physics, 2015, 17, 21594-21604.	1.3	10
52	Photophysical Processes Occurring in a Zn-phthalocyanine in Ethanol Solution and on TiO₂ Nanostructures. Journal of Physical Chemistry C, 2015, 119, 20256-20264.	1.5	10
53	The Golden Fig: A Plasmonic Effect Study of Organic-Based Solar Cells. Nanomaterials, 2022, 12, 267.	1.9	10
54	A Photoelectrochemical Study of Bioinspired 2-Styryl-1-Benzopyrylium Cations on TiO2 Nanoparticle Layer for Application in Dye-Sensitized Solar Cells. Materials, 2019, 12, 4060.	1.3	7

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55	Synthesis and Characterization of a Series of Bis-homoleptic Cycloruthenates with Terdentate Ligands as a Family of Panchromatic Dyes. Inorganic Chemistry, 2017, 56, 9903-9912.	1.9	5
56	A Photoelectrochemical Study of Hybrid Organic and Donorâ€"Acceptor Dyes as Sensitizers for Dye-Sensitized Solar Cells. Applied Sciences (Switzerland), 2022, 12, 3159.	1.3	4
57	Optically Transparent Gold Nanoparticles for DSSC Counter-Electrode: An Electrochemical Characterization. Molecules, 2022, 27, 4178.	1.7	3
58	RTV Silicone Membranes as Agents to Confine the Liquid Components in Dye Sensitized Solar Cells. Journal of Materials, 2013, 2013, 1-9.	0.1	1
59	Thin-Film Photovoltaics 2013. International Journal of Photoenergy, 2014, 2014, 1-3.	1.4	0
60	Thin-Film Photovoltaics 2014. International Journal of Photoenergy, 2015, 2015, 1-3.	1.4	0
61	Improvement of DSSC performance by voltage stress application. , 2016, , .		0