

Carlo Alberto Bignozzi

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73
papers

3,966
citations

34
h-index

62
g-index

76
ext. papers

4,264
ext. citations

7.3
avg, IF

4.83
L-index

#	Paper	IF	Citations
73	Phosphonate-based bipyridine dyes for stable photovoltaic devices. <i>Inorganic Chemistry</i> , 2001 , 40, 6073-9.	9.1	275
72	Porphyrin dyes for TiO ₂ sensitization. <i>Journal of Materials Chemistry</i> , 2003 , 13, 502-510		219
71	Nanostructured photoelectrodes based on WO ₃ : applications to photooxidation of aqueous electrolytes. <i>Chemical Society Reviews</i> , 2013 , 42, 2228-46	58.5	216
70	Design of molecular dyes for application in photoelectrochemical and electrochromic devices based on nanocrystalline metal oxide semiconductors. <i>Coordination Chemistry Reviews</i> , 2004 , 248, 1299-1316	23.2	201
69	Efficient dye-sensitized solar cells using red turnip and purple wild sicilian prickly pear fruits. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 254-67	6.3	190
68	Sensitization of nanocrystalline TiO ₂ with black absorbers based on Os and Ru polypyridine complexes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15342-3	16.4	187
67	Photoinduced electron and energy transfer in polynuclear complexes. <i>Topics in Current Chemistry</i> , 1990 , 73-149		150
66	Efficient photoelectrochemical water splitting by anodically grown WO ₃ electrodes. <i>Langmuir</i> , 2011 , 27, 7276-84	4	149
65	Natural dye sensitzers for photoelectrochemical cells. <i>Energy and Environmental Science</i> , 2009 , 2, 1162	35.4	140
64	Electronic coupling in cyano-bridged ruthenium polypyridine complexes and role of electronic effects on cyanide stretching frequencies. <i>Inorganic Chemistry</i> , 1992 , 31, 5260-5267	5.1	140
63	Zirconium oxide coating improves implant osseointegration in vivo. <i>Dental Materials</i> , 2008 , 24, 357-61	5.7	127
62	Efficient non-corrosive electron-transfer mediator mixtures for dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9996-7	16.4	114
61	Synthesis and comprehensive characterizations of new cis-RuL(2)X(2) (X = Cl, CN, and NCS) sensitizers for nanocrystalline TiO(2) solar cell using Bis-phosphonated bipyridine ligands (L). <i>Inorganic Chemistry</i> , 2003 , 42, 6655-66	5.1	104
60	Modification of nanocrystalline WO ₃ with a dicationic perylene bisimide: applications to molecular level solar water splitting. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4630-3	16.4	90
59	Photoanodes based on nanostructured WO ₃ for water splitting. <i>ChemPhysChem</i> , 2012 , 13, 3025-34	3.2	89
58	Hierarchical organization of perylene bisimides and polyoxometalates for photo-assisted water oxidation. <i>Nature Chemistry</i> , 2019 , 11, 146-153	17.6	77
57	Syntheses and spectroscopic characterization of fac-[Re(CO) ₃ (phen)(L)]PF ₆ , L=trans- and cis-1,2-bis(4-pyridyl)ethylene. <i>Inorganica Chimica Acta</i> , 2001 , 313, 149-155	2.7	76

56	Intervalence transfer in cyano-bridged bi- and trinuclear ruthenium complexes. <i>Journal of the American Chemical Society</i> , 1985 , 107, 1644-1651	16.4	76
55	Preparation and photoelectrochemical characterization of a red sensitive osmium complex containing 4,4',4''-tricarboxy-2,2':6',2''-terpyridine and cyanide ligands. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 164, 15-21	4.7	75
54	Photo-electrochemical properties of nanostructured WO ₃ prepared with different organic dispersing agents. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 788-796	6.4	72
53	Solvent Effects on the Oxidative Electrochemical Behavior of cis-Bis(isothiocyanato)ruthenium(II)-bis-2,2'-bipyridine-4,4'-dicarboxylic Acid. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 3926-3932	3.4	58
52	Optical electron-transfer transitions in polynuclear complexes of the type X(NH ₃) ₄ RuNCRu(bpy) ₂ CNRu(NH ₃) ₄ Y ^{m+} (X = NH ₃ , py; Y = NH ₃ , py; m = 4-6). <i>Inorganic Chemistry</i> , 1988 , 27, 408-414	5.1	58
51	Efficiency enhancement of the electrocatalytic reduction of CO ₂ : fac-[Re(v-bpy)(CO) ₃ Cl] electropolymerized onto mesoporous TiO ₂ electrodes. <i>Inorganica Chimica Acta</i> , 2006 , 359, 3871-3874	2.7	51
50	Novel Ru-dioxolene complexes as potential electrochromic materials and NIR dyes. <i>Inorganic Chemistry</i> , 2003 , 42, 6613-5	5.1	49
49	Solvatochromic Dye Sensitized Nanocrystalline Solar Cells. <i>Nano Letters</i> , 2002 , 2, 625-628	11.5	47
48	Mesostructured self-assembled titania films for photovoltaic applications. <i>Microporous and Mesoporous Materials</i> , 2006 , 88, 304-311	5.3	45
47	Electrochromic devices based on binuclear mixed valence compounds adsorbed on nanocrystalline semiconductors. <i>Inorganic Chemistry</i> , 2003 , 42, 3966-8	5.1	45
46	Long-range energy transfer in oligomeric metal complex assemblies. <i>Journal of the American Chemical Society</i> , 1992 , 114, 8727-8729	16.4	43
45	Ruthenium(II) 2,2'-bipyridine complexes containing methyl isocyanide ligands. Extreme effects of nonchromophoric ligands on excited-state properties. <i>Journal of the American Chemical Society</i> , 1988 , 110, 7381-7386	16.4	43
44	A Multitechnique Physicochemical Investigation of Various Factors Controlling the Photoaction Spectra and of Some Aspects of the Electron Transfer for a Series of Push-Pull Zn(II) Porphyrins Acting as Dyes in DSSCs. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23170-23182	3.8	41
43	Comparative Evaluation of Catalytic Counter Electrodes for Co(III)/(II) Electron Shuttles in Regenerative Photoelectrochemical Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5142-5153	3.8	37
42	Photosensitization of wide bandgap semiconductors with antenna molecules. <i>Solar Energy Materials and Solar Cells</i> , 1995 , 38, 187-198	6.4	37
41	Photoelectrochemical mineralization of emerging contaminants at porous WO ₃ interfaces. <i>Applied Catalysis B: Environmental</i> , 2017 , 204, 273-282	21.8	36
40	New Components for Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , 2010 , 2010, 1-16	2.1	36
39	Fluorous Molecules for Dye-Sensitized Solar Cells: Synthesis and Photoelectrochemistry of Unsymmetrical Zinc Phthalocyanine Sensitizers with Bulky Fluorophilic Donor Groups. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3777-3788	3.8	32

38	Efficient solar water oxidation using photovoltaic devices functionalized with earth-abundant oxygen evolving catalysts. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13083-92	3.6	30
37	4-Phenylpyridine as ancillary ligand in ruthenium(II) polypyridyl complexes for sensitization of n-type TiO ₂ electrodes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998 , 115, 239-242	4.7	30
36	Some aspects of the charge transfer dynamics in nanostructured WO ₃ films. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2995-3006	13	29
35	Bis(8-quinolinolato)platinum(II): a novel complex exhibiting efficient, long-lived luminescence in fluid solution. <i>Inorganica Chimica Acta</i> , 1978 , 31, L423-L424	2.7	29
34	A New 1,3,4-Oxadiazole-Based Hole-Transport Material for Efficient CH ₃ NH ₃ PbBr ₃ Perovskite Solar Cells. <i>ChemSusChem</i> , 2016 , 9, 657-61	8.3	29
33	Photoinduced energy and electron transfer in inorganic covalently linked systems. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1994 , 82, 191-202	4.7	28
32	Hematite photoanodes modified with an Fe(III) water oxidation catalyst. <i>ChemPhysChem</i> , 2014 , 15, 1164-1174	3.7	26
31	Single Walled Carbon Nanohorns as Catalytic Counter Electrodes for Co(III)/(II) Electron Mediators in Dye Sensitized Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14604-12	9.5	25
30	Excited-state proton-transfer processes of cis-dicyanobis(2,2'-bipyridine)ruthenium(II) in acetonitrile/water solvent systems. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 1373-1380		25
29	A New Strategy Against Peri-Implantitis: Antibacterial Internal Coating. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	24
28	Conductive PEDOT Covalently Bound to Transparent FTO Electrodes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16782-16790	3.8	24
27	Dye-sensitized solar cells based on PEDOP as a hole conductive medium. <i>Inorganica Chimica Acta</i> , 2008 , 361, 627-634	2.7	23
26	On the stability of manganese tris(β-diketonate) complexes as redox mediators in DSSCs. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 5949-56	3.6	19
25	Genetic effect of zirconium oxide coating on osteoblast-like cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 84, 550-8	3.5	19
24	Electronic and charge transfer properties of bio-inspired flavylum ions for applications in TiO ₂ -based dye-sensitized solar cells. <i>Photochemical and Photobiological Sciences</i> , 2017 , 16, 1400-1414	4.2	15
23	Charge Transfer Dynamics in β - and Meso-Substituted Dithienylethylene Porphyrins. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18385-18400	3.8	14
22	Perylene Diimide Aggregates on Sb-Doped SnO ₂ : Charge Transfer Dynamics Relevant to Solar Fuel Generation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17737-17745	3.8	14
21	Electrochemical and electrochromic investigation of poly-bithiophene films on a mesoporous TiO ₂ surface. <i>Synthetic Metals</i> , 2006 , 156, 27-31	3.6	14

20	Photoelectrochemical degradation of pharmaceuticals at ZnO modified WO_3 interfaces. <i>Catalysis Today</i> , 2020 , 340, 302-310	5.3	13
19	Photoelectrocatalytic degradation of emerging contaminants at $\text{WO}_3/\text{BiVO}_4$ photoanodes in aqueous solution. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 2150-2163	4.2	12
18	Electrochromic properties of mixed valence binuclear ruthenium complexes adsorbed on nanocrystalline SnO_2 films. <i>Inorganica Chimica Acta</i> , 2007 , 360, 1131-1137	2.7	12
17	Sensitization of n-Type TiO_2 Electrode by a Novel Isoquinoline Ruthenium(II) Polypyridyl Complex. <i>Journal of the Brazilian Chemical Society</i> , 1998 , 9, 13-15	1.5	11
16	A viable surface passivation approach to improve efficiency in cobalt based dye sensitized solar cells. <i>Polyhedron</i> , 2014 , 82, 173-180	2.7	10
15	Particulate adducts based on sodium risedronate and titanium dioxide for the bioavailability enhancement of oral administered bisphosphonates. <i>European Journal of Pharmaceutical Sciences</i> , 2010 , 41, 328-36	5.1	10
14	Hydrogen production with nanostructured and sensitized metal oxides. <i>Topics in Current Chemistry</i> , 2011 , 303, 39-94		9
13	Photochemistry of dimeric and trimeric hydroxo-bridged diammine platinum(II) complexes in aqueous solution. <i>Inorganica Chimica Acta</i> , 1982 , 62, 187-191	2.7	9
12	Electrochemical characterization of polypyridine iron(II) and cobalt(II) complexes for organic redox flow batteries. <i>Polyhedron</i> , 2018 , 140, 99-108	2.7	6
11	Bis(bipyridine)ruthenium(II) cyanobridge polymeric cations. <i>Inorganica Chimica Acta</i> , 1984 , 86, 133-136	2.7	6
10	Titanium Implants Coated with a Bifunctional Molecule with Antimicrobial Activity: A Rabbit Study. <i>Materials</i> , 2020 , 13,	3.5	5
9	Photoelectrochemical Behavior of Electrophoretically Deposited Hematite Thin Films Modified with Ti(IV) . <i>Molecules</i> , 2016 , 21,	4.8	5
8	Solar Energy Conversion in Photoelectrochemical Systems. <i>Lecture Notes in Quantum Chemistry II</i> , 2016 , 67-143	0.6	4
7	On the Use of PEDOT as a Catalytic Counter Electrode Material in Dye-Sensitized Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3795	2.6	3
6	Recent Developments in the Design of Dye-Sensitized Solar Cell Components 2010 , 523-579		2
5	Evaluation of the Transepidermal Penetration of a Carnosine Complex in Gel Formulation by 3D Skin Models. <i>Cosmetics</i> , 2018 , 5, 67	2.7	2
4	Hematite-based photoelectrochemical interfaces for solar fuel production. <i>Inorganica Chimica Acta</i> , 2022 , 535, 120862	2.7	2
3	Cyano-Bridged Supramolecular Systems Containing the Ru(bpy)_2^{2+} Photosensitizer Unit 1987 , 121-133		1

2	Self-Assembled Multinuclear Complexes for Cobalt(II/III) Mediated Sensitized Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2769	2.6	o
1	Modular stand-alone photoelectrocatalytic reactor for emergent contaminant degradation via solar radiation. <i>Solar Energy</i> , 2021 , 228, 120-127	6.8	o