

# Carlo Alberto Bignozzi

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Hematite-based photoelectrochemical interfaces for solar fuel production. <i>Inorganica Chimica Acta</i> , <b>2022</b> , 535, 120862	2.7	2
72	Self-Assembled Multinuclear Complexes for Cobalt(II/III) Mediated Sensitized Solar Cells. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2769	2.6	0
71	On the Use of PEDOT as a Catalytic Counter Electrode Material in Dye-Sensitized Solar Cells. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3795	2.6	3
70	Modular stand-alone photoelectrocatalytic reactor for emergent contaminant degradation via solar radiation. <i>Solar Energy</i> , <b>2021</b> , 228, 120-127	6.8	0
69	Titanium Implants Coated with a Bifunctional Molecule with Antimicrobial Activity: A Rabbit Study. <i>Materials</i> , <b>2020</b> , 13,	3.5	5
68	Photoelectrochemical degradation of pharmaceuticals at $\text{ZnO}$ modified $\text{WO}_3$ interfaces. <i>Catalysis Today</i> , <b>2020</b> , 340, 302-310	5.3	13
67	Photoelectrocatalytic degradation of emerging contaminants at $\text{WO}_3/\text{BiVO}_4$ photoanodes in aqueous solution. <i>Photochemical and Photobiological Sciences</i> , <b>2019</b> , 18, 2150-2163	4.2	12
66	A New Strategy Against Peri-Implantitis: Antibacterial Internal Coating. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	24
65	Hierarchical organization of perylene bisimides and polyoxometalates for photo-assisted water oxidation. <i>Nature Chemistry</i> , <b>2019</b> , 11, 146-153	17.6	77
64	Electrochemical characterization of polypyridine iron(II) and cobalt(II) complexes for organic redox flow batteries. <i>Polyhedron</i> , <b>2018</b> , 140, 99-108	2.7	6
63	Evaluation of the Transepidermal Penetration of a Carnosine Complex in Gel Formulation by 3D Skin Models. <i>Cosmetics</i> , <b>2018</b> , 5, 67	2.7	2
62	Charge Transfer Dynamics in $\beta$ - and Meso-Substituted Dithienylethylene Porphyrins. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 18385-18400	3.8	14
61	Perylene Diimide Aggregates on Sb-Doped $\text{SnO}_2$ : Charge Transfer Dynamics Relevant to Solar Fuel Generation. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 17737-17745	3.8	14
60	Electronic and charge transfer properties of bio-inspired flavylum ions for applications in $\text{TiO}_2$ -based dye-sensitized solar cells. <i>Photochemical and Photobiological Sciences</i> , <b>2017</b> , 16, 1400-1414	4.2	15
59	Photoelectrochemical mineralization of emerging contaminants at porous $\text{WO}_3$ interfaces. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 204, 273-282	21.8	36
58	Single Walled Carbon Nanohorns as Catalytic Counter Electrodes for Co(III)/(II) Electron Mediators in Dye Sensitized Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14604-12	9.5	25
57	On the stability of manganese tris(ediketonate) complexes as redox mediators in DSSCs. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 5949-56	3.6	19

56	Some aspects of the charge transfer dynamics in nanostructured WO <sub>3</sub> films. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2995-3006	13	29
55	Photoelectrochemical Behavior of Electrophoretically Deposited Hematite Thin Films Modified with Ti(IV). <i>Molecules</i> , <b>2016</b> , 21,	4.8	5
54	A New 1,3,4-Oxadiazole-Based Hole-Transport Material for Efficient CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskite Solar Cells. <i>ChemSusChem</i> , <b>2016</b> , 9, 657-61	8.3	29
53	Solar Energy Conversion in Photoelectrochemical Systems. <i>Lecture Notes in Quantum Chemistry II</i> , <b>2016</b> , 67-143	0.6	4
52	Modification of nanocrystalline WO <sub>3</sub> with a dicationic perylene bisimide: applications to molecular level solar water splitting. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 4630-3	16.4	90
51	Hematite photoanodes modified with an Fe(III) water oxidation catalyst. <i>ChemPhysChem</i> , <b>2014</b> , 15, 1164-74	3.74	26
50	Conductive PEDOT Covalently Bound to Transparent FTO Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 16782-16790	3.8	24
49	A viable surface passivation approach to improve efficiency in cobalt based dye sensitized solar cells. <i>Polyhedron</i> , <b>2014</b> , 82, 173-180	2.7	10
48	Efficient solar water oxidation using photovoltaic devices functionalized with earth-abundant oxygen evolving catalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 13083-92	3.6	30
47	Nanostructured photoelectrodes based on WO <sub>3</sub> : applications to photooxidation of aqueous electrolytes. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 2228-46	58.5	216
46	Comparative Evaluation of Catalytic Counter Electrodes for Co(III)/(II) Electron Shuttles in Regenerative Photoelectrochemical Cells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 5142-5153	3.8	37
45	Photoanodes based on nanostructured WO <sub>3</sub> for water splitting. <i>ChemPhysChem</i> , <b>2012</b> , 13, 3025-34	3.2	89
44	Hydrogen production with nanostructured and sensitized metal oxides. <i>Topics in Current Chemistry</i> , <b>2011</b> , 303, 39-94		9
43	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> , <b>2011</b> , 115, 3777-3788	3.8	32
42	A Multitechnique Physicochemical Investigation of Various Factors Controlling the Photoaction Spectra and of Some Aspects of the Electron Transfer for a Series of PushBull Zn(II) Porphyrins Acting as Dyes in DSSCs. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 23170-23182	3.8	41
41	Efficient photoelectrochemical water splitting by anodically grown WO <sub>3</sub> electrodes. <i>Langmuir</i> , <b>2011</b> , 27, 7276-84	4	149
40	New Components for Dye-Sensitized Solar Cells. <i>International Journal of Photoenergy</i> , <b>2010</b> , 2010, 1-16	2.1	36
39	Efficient dye-sensitized solar cells using red turnip and purple wild sicilian prickly pear fruits. <i>International Journal of Molecular Sciences</i> , <b>2010</b> , 11, 254-67	6.3	190

38	Particulate adducts based on sodium risedronate and titanium dioxide for the bioavailability enhancement of oral administered bisphosphonates. <i>European Journal of Pharmaceutical Sciences</i> , <b>2010</b> , 41, 328-36	5.1	10
37	Recent Developments in the Design of Dye-Sensitized Solar Cell Components <b>2010</b> , 523-579		2
36	Photo-electrochemical properties of nanostructured WO <sub>3</sub> prepared with different organic dispersing agents. <i>Solar Energy Materials and Solar Cells</i> , <b>2010</b> , 94, 788-796	6.4	72
35	Natural dye sensitzers for photoelectrochemical cells. <i>Energy and Environmental Science</i> , <b>2009</b> , 2, 1162	35.4	140
34	Zirconium oxide coating improves implant osseointegration in vivo. <i>Dental Materials</i> , <b>2008</b> , 24, 357-61	5.7	127
33	Genetic effect of zirconium oxide coating on osteoblast-like cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2008</b> , 84, 550-8	3.5	19
32	Dye-sensitized solar cells based on PEDOP as a hole conductive medium. <i>Inorganica Chimica Acta</i> , <b>2008</b> , 361, 627-634	2.7	23
31	Electrochromic properties of mixed valence binuclear ruthenium complexes adsorbed on nanocrystalline SnO <sub>2</sub> films. <i>Inorganica Chimica Acta</i> , <b>2007</b> , 360, 1131-1137	2.7	12
30	Efficient non-corrosive electron-transfer mediator mixtures for dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 9996-7	16.4	114
29	Electrochemical and electrochromic investigation of poly-bithiophene films on a mesoporous TiO <sub>2</sub> surface. <i>Synthetic Metals</i> , <b>2006</b> , 156, 27-31	3.6	14
28	Mesostructured self-assembled titania films for photovoltaic applications. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 88, 304-311	5.3	45
27	Efficiency enhancement of the electrocatalytic reduction of CO <sub>2</sub> : fac-[Re(v-bpy)(CO) <sub>3</sub> Cl] electropolymerized onto mesoporous TiO <sub>2</sub> electrodes. <i>Inorganica Chimica Acta</i> , <b>2006</b> , 359, 3871-3874	2.7	51
26	Sensitization of nanocrystalline TiO <sub>2</sub> with black absorbers based on Os and Ru polypyridine complexes. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 15342-3	16.4	187
25	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> , <b>2004</b> , 164, 15-21	4.7	75
24	Design of molecular dyes for application in photoelectrochemical and electrochromic devices based on nanocrystalline metal oxide semiconductors. <i>Coordination Chemistry Reviews</i> , <b>2004</b> , 248, 1299-1316	23.2	201
23	Electrochromic devices based on binuclear mixed valence compounds adsorbed on nanocrystalline semiconductors. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 3966-8	5.1	45
22	Novel Ru-dioxolene complexes as potential electrochromic materials and NIR dyes. <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 6613-5	5.1	49
21	Synthesis and comprehensive characterizations of new cis-RuL <sub>2</sub> (X) <sub>2</sub> (X = Cl, CN, and NCS) sensitizers for nanocrystalline TiO <sub>2</sub> solar cell using Bis-phosphonated bipyridine ligands (L). <i>Inorganic Chemistry</i> , <b>2003</b> , 42, 6655-66	5.1	104

20	Porphyrin dyes for TiO <sub>2</sub> sensitization. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 502-510		219
19	Solvatochromic Dye Sensitized Nanocrystalline Solar Cells. <i>Nano Letters</i> , <b>2002</b> , 2, 625-628	11.5	47
18	Solvent Effects on the Oxidative Electrochemical Behavior of <i>cis</i> -Bis(isothiocyanato)ruthenium(II)-bis-2,2'-bipyridine-4,4'-dicarboxylic Acid. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 3926-3932	3.4	58
17	Syntheses and spectroscopic characterization of <i>fac</i> -[Re(CO) <sub>3</sub> (phen)(L)]PF <sub>6</sub> , L= <i>trans</i> - and <i>cis</i> -1,2-bis(4-pyridyl)ethylene. <i>Inorganica Chimica Acta</i> , <b>2001</b> , 313, 149-155	2.7	76
16	Phosphonate-based bipyridine dyes for stable photovoltaic devices. <i>Inorganic Chemistry</i> , <b>2001</b> , 40, 6073-9.1	9.1	275
15	4-Phenylpyridine as ancillary ligand in ruthenium(II) polypyridyl complexes for sensitization of n-type TiO <sub>2</sub> electrodes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1998</b> , 115, 239-242	4.7	30
14	Sensitization of n-Type TiO <sub>2</sub> Electrode by a Novel Isoquinoline Ruthenium(II) Polypyridyl Complex. <i>Journal of the Brazilian Chemical Society</i> , <b>1998</b> , 9, 13-15	1.5	11
13	Photosensitization of wide bandgap semiconductors with antenna molecules. <i>Solar Energy Materials and Solar Cells</i> , <b>1995</b> , 38, 187-198	6.4	37
12	Photoinduced energy and electron transfer in inorganic covalently linked systems. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1994</b> , 82, 191-202	4.7	28
11	Electronic coupling in cyano-bridged ruthenium polypyridine complexes and role of electronic effects on cyanide stretching frequencies. <i>Inorganic Chemistry</i> , <b>1992</b> , 31, 5260-5267	5.1	140
10	Long-range energy transfer in oligomeric metal complex assemblies. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 8727-8729	16.4	43
9	Photoinduced electron and energy transfer in polynuclear complexes. <i>Topics in Current Chemistry</i> , <b>1990</b> , 73-149		150
8	Excited-state proton-transfer processes of <i>cis</i> -dicyanobis(2,2'-bipyridine)ruthenium(II) in acetonitrile/water solvent systems. <i>The Journal of Physical Chemistry</i> , <b>1989</b> , 93, 1373-1380		25
7	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> , <b>1988</b> , 110, 7381-7386	16.4	43
6	Optical electron-transfer transitions in polynuclear complexes of the type X(NH <sub>3</sub> ) <sub>4</sub> RuNCRu(bpy) <sub>2</sub> CNRu(NH <sub>3</sub> ) <sub>4</sub> Y <sup>m+</sup> (X = NH <sub>3</sub> , py; Y = NH <sub>3</sub> , py; m = 4-6). <i>Inorganic Chemistry</i> , <b>1988</b> , 27, 408-414	5.1	58
5	Cyano-Bridged Supramolecular Systems Containing the Ru(bpy) <sub>2</sub> <sup>2+</sup> Photosensitizer Unit <b>1987</b> , 121-133		1
4	Intervalence transfer in cyano-bridged bi- and trinuclear ruthenium complexes. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 1644-1651	16.4	76
3	Bis(bipyridine)ruthenium(II) cyanobridge polymeric cations. <i>Inorganica Chimica Acta</i> , <b>1984</b> , 86, 133-136	2.7	6

2	Photochemistry of dimeric and trimeric hydroxo-bridged diammine platinum(II) complexes in aqueous solution. <i>Inorganica Chimica Acta</i> , <b>1982</b> , 62, 187-191	2.7	9
1	Bis(8-quinolinolato)platinum(II): a novel complex exhibiting efficient, long-lived luminescence in fluid solution. <i>Inorganica Chimica Acta</i> , <b>1978</b> , 31, L423-L424	2.7	29