## Roberto Argazzi

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Record power conversion efficiencies for iron( <scp>ii</scp> )-NHC-sensitized DSSCs from rational<br>molecular engineering and electrolyte optimization. Journal of Materials Chemistry A, 2021, 9,<br>3540-3554.                                   | 10.3 | 25        |
| 2  | Self-Assembled Multinuclear Complexes for Cobalt(II/III) Mediated Sensitized Solar Cells. Applied Sciences (Switzerland), 2021, 11, 2769.   | 2.5  | 2         |
| 3  | A Series of Iron(II)â€NHC Sensitizers with Remarkable Power Conversion Efficiency in<br>Photoelectrochemical Cells**. Chemistry - A European Journal, 2021, 27, 16260-16269.  | 3.3  | 16        |
| 4  | Photoelectrochemical degradation of pharmaceuticals at β25 modified WO3 interfaces. Catalysis Today, 2020, 340, 302-310.  | 4.4  | 20        |
| 5  | Photoelectrochemical Properties of SnO <sub>2</sub> Photoanodes Sensitized by Cationic<br>Perylene-Di-Imide Aggregates for Aqueous HBr Splitting. Journal of Physical Chemistry C, 2020, 124,<br>1317-1329.   | 3.1  | 13        |
| 6  | Recombination and regeneration dynamics in FeNHC( <scp>ii</scp> )-sensitized solar cells. Chemical Communications, 2020, 56, 543-546.   | 4.1  | 21        |
| 7  | Fluorinated Zn <sup>II</sup> Porphyrins for Dye-Sensitized Aqueous Photoelectrosynthetic Cells. ACS<br>Applied Materials & Interfaces, 2019, 11, 32895-32908.   | 8.0  | 19        |
| 8  | Charge Transfer Dynamics in β- and <i>Meso</i> -Substituted Dithienylethylene Porphyrins. Journal of Physical Chemistry C, 2017, 121, 18385-18400.  | 3.1  | 17        |
| 9  | Perylene Diimide Aggregates on Sb-Doped SnO <sub>2</sub> : Charge Transfer Dynamics Relevant to Solar Fuel Generation. Journal of Physical Chemistry C, 2017, 121, 17737-17745.   | 3.1  | 22        |
| 10 | Photoelectrochemical Behavior of Electrophoretically Deposited Hematite Thin Films Modified with Ti(IV). Molecules, 2016, 21, 942.  | 3.8  | 6         |
| 11 | Charge injection into nanostructured TiO <sub>2</sub> electrodes from the photogenerated reduced<br>form of a new Ru( <scp>ii</scp> ) polypyridine compound: the "anti-biomimetic―mechanism at work.<br>Dalton Transactions, 2016, 45, 14109-14123. | 3.3  | 19        |
| 12 | Sedimentation field flow fractionation and optical absorption spectroscopy for a quantitative size characterization of silver nanoparticles. Journal of Chromatography A, 2016, 1471, 178-185.  | 3.7  | 11        |
| 13 | On the stability of manganese tris(β-diketonate) complexes as redox mediators in DSSCs. Physical<br>Chemistry Chemical Physics, 2016, 18, 5949-5956.  | 2.8  | 24        |
| 14 | Some aspects of the charge transfer dynamics in nanostructured WO <sub>3</sub> films. Journal of<br>Materials Chemistry A, 2016, 4, 2995-3006.  | 10.3 | 40        |
| 15 | Modification of Nanocrystalline WO <sub>3</sub> with a Dicationic Perylene Bisimide: Applications to<br>Molecular Level Solar Water Splitting. Journal of the American Chemical Society, 2015, 137, 4630-4633.                                      | 13.7 | 114       |
| 16 | Improvement of the electron collection efficiency in porous hematite using a thin iron oxide<br>underlayer: towards efficient all-iron based photoelectrodes. Physical Chemistry Chemical Physics,<br>2015, 17, 29661-29670.                        | 2.8  | 10        |
| 17 | Novel Ru-based sunlight harvesters bearing dithienylpyrrolo (DTP)-bipyridine ligands: Synthesis, characterization and photovoltaic properties. Dyes and Pigments, 2014, 101, 318-328.   | 3.7  | 7         |
| 18 | Hematite Photoanodes Modified with an Fe <sup>III</sup> Water Oxidation Catalyst. ChemPhysChem, 2014, 15, 1164-1174   | 2.1  | 26        |

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| 19 | Influence of Porphyrinic Structure on Electron Transfer Processes at the<br>Electrolyte/Dye/TiO <sub>2</sub> Interface in PSSCs: a Comparison between meso Push–Pull and<br>β-Pyrrolic Architectures. ACS Applied Materials & Interfaces, 2014, 6, 15841-15852. | 8.0  | 32        |
| 20 | A viable surface passivation approach to improve efficiency in cobalt based dye sensitized solar cells.<br>Polyhedron, 2014, 82, 173-180.   | 2.2  | 12        |
| 21 | Efficient solar water oxidation using photovoltaic devices functionalized with earth-abundant oxygen evolving catalysts. Physical Chemistry Chemical Physics, 2013, 15, 13083.  | 2.8  | 30        |
| 22 | Photocatalytic Hydrogen Evolution with a Selfâ€Assembling Reductant–Sensitizer–Catalyst System.<br>Chemistry - A European Journal, 2013, 19, 9261-9271.   | 3.3  | 75        |
| 23 | Sensitization of Nanocrystalline TiO <sub>2</sub> with Multibranched Organic Dyes and Co(III)/(II)<br>Mediators: Strategies to Improve Charge Collection Efficiency. Journal of Physical Chemistry C, 2013,<br>117, 19885-19896.                                | 3.1  | 34        |
| 24 | The role of transition metal complexes in dye sensitized solar devices. Coordination Chemistry Reviews, 2013, 257, 1472-1492.   | 18.8 | 157       |
| 25 | Nanostructured photoelectrodes based on WO <sub>3</sub> : applications to photooxidation of aqueous electrolytes. Chemical Society Reviews, 2013, 42, 2228-2246.  | 38.1 | 250       |
| 26 | Comparative Evaluation of Catalytic Counter Electrodes for Co(III)/(II) Electron Shuttles in Regenerative Photoelectrochemical Cells. Journal of Physical Chemistry C, 2013, 117, 5142-5153.  | 3.1  | 45        |
| 27 | Photocatalysis with Na4W10O32 in water system: Formation and reactivity of OH radicals. Journal of Molecular Catalysis A, 2013, 372, 23-28.   | 4.8  | 26        |
| 28 | Reverse bias degradation in dye solar cells. Applied Physics Letters, 2012, 101, 123302.  | 3.3  | 24        |
| 29 | Efficient Anodically Grown WO3 for Photoelectrochemical Water Splitting. Energy Procedia, 2012, 22, 127-136.  | 1.8  | 20        |
| 30 | Strong π-delocalization and substitution effect on electronic properties of<br>dithienylpyrrole-containing bipyridine ligands and corresponding ruthenium complexes. Dalton<br>Transactions, 2012, 41, 4833.  | 3.3  | 18        |
| 31 | Hydrogen Production with Nanostructured and Sensitized Metal Oxides. Topics in Current Chemistry, 2011, 303, 39-94.   | 4.0  | 9         |
| 32 | Efficient Photoelectrochemical Water Splitting by Anodically Grown WO <sub>3</sub> Electrodes.<br>Langmuir, 2011, 27, 7276-7284.  | 3.5  | 158       |
| 33 | Sedimentation field flow fractionation and flow field flow fractionation as tools for studying the aging effects of WO3 colloids for photoelectrochemical uses. Journal of Chromatography A, 2011, 1218, 4179-4187.   | 3.7  | 8         |
| 34 | Combination of Cobalt and Iron Polypyridine Complexes for Improving the Charge Separation and<br>Collection in Ru(terpyridine) <sub>2</sub> ‣ensitised Solar Cells. Chemistry - A European Journal, 2010,<br>16, 2611-2618.                                     | 3.3  | 54        |
| 35 | New Components for Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2010, 2010, 1-16.  | 2.5  | 43        |
| 36 | Efficient Dye-Sensitized Solar Cells Using Red Turnip and Purple Wild Sicilian Prickly Pear Fruits.<br>International Journal of Molecular Sciences, 2010, 11, 254-267.  | 4.1  | 233       |

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|----|---|---------------------|-----------|
| 37 | Ruthenium polyoxometalate water splitting catalyst: very fast hole scavenging from photogenerated oxidants. Chemical Communications, 2010, 46, 3152.  | 4.1                 | 165       |
| 38 | Photoelectrochemical Behavior of Sensitized TiO2Photoanodes in an Aqueous Environment:<br>Application to Hydrogen Production. Inorganic Chemistry, 2010, 49, 3320-3328.   | 4.0                 | 52        |
| 39 | Size sorting of citrate reduced gold nanoparticles by sedimentation field-flow fractionation. Journal of Chromatography A, 2009, 1216, 9088-9098.   | 3.7                 | 28        |
| 40 | Photoinduced energy transfer in a rod-like dinuclear Ru(ii) complex containing bis-pyridyl-1,3,5-triazine<br>ligands. Dalton Transactions, 2009, , 3964.  | 3.3                 | 24        |
| 41 | Natural dye senstizers for photoelectrochemical cells. Energy and Environmental Science, 2009, 2, 1162.   | 30.8                | 162       |
| 42 | Genetic effect of zirconium oxide coating on osteoblastâ€like cells. Journal of Biomedical Materials<br>Research - Part B Applied Biomaterials, 2008, 84B, 550-558.   | 3.4                 | 28        |
| 43 | Dye-sensitized solar cells based on PEDOP as a hole conductive medium. Inorganica Chimica Acta, 2008, 361, 627-634.   | 2.4                 | 24        |
| 44 | Electron Transfer Mediators for Photoelectrochemical Cells Based on Cu(I) Metal Complexes.<br>International Journal of Photoenergy, 2007, 2007, 1-10.   | 2.5                 | 18        |
| 45 | Electrochromic properties of mixed valence binuclear ruthenium complexes adsorbed on nanocrystalline SnO2 films. Inorganica Chimica Acta, 2007, 360, 1131-1137.   | 2.4                 | 12        |
| 46 | 6-N,N-Dimethylamino-2,3-naphthalimide: A New Environment-Sensitive Fluorescent Probe in δ- and<br>μ-Selective Opioid Peptides. Journal of Medicinal Chemistry, 2006, 49, 3653-3658.   | 6.4                 | 48        |
| 47 | Efficient Non-corrosive Electron-Transfer Mediator Mixtures for Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2006, 128, 9996-9997.   | 13.7                | 118       |
| 48 | Mesostructured self-assembled titania films for photovoltaic applications. Microporous and<br>Mesoporous Materials, 2006, 88, 304-311.  | 4.4                 | 48        |
| 49 | Electrochromic devices based on wide band-gap nanocrystalline semiconductors functionalized with mononuclear charge transfer compounds. Displays, 2006, 27, 19-23.  | 3.7                 | 14        |
| 50 | Solid-State Photochromic Device Based on Nanocrystalline TiO2Functionalized with Electron<br>Donorâ''Acceptor Species. Inorganic Chemistry, 2005, 44, 9619-9621.  | 4.0                 | 54        |
| 51 | Sensitization of Nanocrystalline TiO2 with Black Absorbers Based on Os and Ru Polypyridine<br>Complexes. Journal of the American Chemical Society, 2005, 127, 15342-15343.  | 13.7                | 203       |
| 52 | Preparation and photoelectrochemical characterization of a red sensitive osmium complex<br>containing 4,4′,4′′-tricarboxy-2,2′:6′,2′′-terpyridine and cyanide ligands. Journal of Photochen<br>Photobiology A: Chemistry, 2004, 164, 15-21. | ni <b>st9</b> y and | 81        |
| 53 | Design of molecular dyes for application in photoelectrochemical and electrochromic devices based on nanocrystalline metal oxide semiconductors. Coordination Chemistry Reviews, 2004, 248, 1299-1316.                                      | 18.8                | 218       |
| 54 | Highly Selective Fluorescent Analogue of the Potent δ-Opioid Receptor Antagonist Dmt-Tic. Journal of<br>Medicinal Chemistry, 2004, 47, 6541-6546.   | 6.4                 | 26        |

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| 55 | Electrochromic Devices Based on Binuclear Mixed Valence Compounds Adsorbed on Nanocrystalline<br>Semiconductors. Inorganic Chemistry, 2003, 42, 3966-3968.  | 4.0       | 47        |
| 56 | Solvatochromic Dye Sensitized Nanocrystalline Solar Cells. Nano Letters, 2002, 2, 625-628.  | 9.1       | 50        |
| 57 | Phosphonate-Based Bipyridine Dyes for Stable Photovoltaic Devices. Inorganic Chemistry, 2001, 40, 6073-6079.  | 4.0       | 303       |
| 58 | Intramolecular Energy Transfer Processes in Binuclear Reâ^'Os Complexes. Inorganic Chemistry, 2001,<br>40, 6885-6891.   | 4.0       | 57        |
| 59 | Molecular and supramolecular sensitization of nanocrystalline wide band-gap semiconductors with mononuclear and polynuclear metal complexes. Chemical Society Reviews, 2000, 29, 87-96.   | 38.1      | 259       |
| 60 | Molecular Rectification by a Bimetallic Ruâ^'Os Compound Anchored to Nanocrystalline TiO2.<br>Inorganic Chemistry, 2000, 39, 1342-1343.   | 4.0       | 51        |
| 61 | Excited state electronic properties of the [(phen)(OC)3ReI(NC)RuII(bpy)2(CN)]PF6 and<br>[(phen)(OC)3ReI(CN)RuII(bpy)2(CN)]PF6 linkage isomers â€. Journal of the Chemical Society Dalton<br>Transactions, 1999, , 3729-3734.  | 1.1       | 8         |
| 62 | Resonance raman investigation of mixed-valence dinuclear and trinuclear complexes of Ru, Os and Re.<br>Inorganica Chimica Acta, 1998, 275-276, 380-384.   | 2.4       | 11        |
| 63 | 4-Phenylpyridine as ancillary ligand in ruthenium(II) polypyridyl complexes for sensitization of n-type<br>TiO2 electrodes. Journal of Photochemistry and Photobiology A: Chemistry, 1998, 115, 239-242.  | 3.9       | 33        |
| 64 | Efficient Light-to-Electrical Energy Conversion with Dithiocarbamateâ^'Ruthenium Polypyridyl<br>Sensitizers. Inorganic Chemistry, 1998, 37, 4533-4537.  | 4.0       | 120       |
| 65 | Sensitization of n-Type TiO2 Electrode by a Novel Isoquinoline Ruthenium(II) Polypyridyl Complex.<br>Journal of the Brazilian Chemical Society, 1998, 9, 13-15.   | 0.6       | 12        |
| 66 | Neighbouring group participation of platinum(II) in the substitution of the α-halogen in complexes<br>[PtI(CHXSiMe3)(R,R-chiraphos)] [Xâ€=â€Cl or Br; chiraphosâ€=â€2,3-bis(diphenylphosphino)butane] by i<br>example of an SN1 substitution at sp3 carbon with inversion of configuration â€. Journal of the<br>Chemical Society Dalton Transactions, 1997, , 4719-4724. | odide. An | 2         |
| 67 | Electropolymerization of Molecular Assemblies. Inorganic Chemistry, 1997, 36, 762-763.  | 4.0       | 12        |
| 68 | Light-Induced Charge Separation across Ru(II)-Modified Nanocrystalline TiO2Interfaces with Phenothiazine Donors. Journal of Physical Chemistry B, 1997, 101, 2591-2597.   | 2.6       | 149       |
| 69 | Remote Interfacial Electron Transfer from Supramolecular Sensitizers. Inorganic Chemistry, 1997, 36, 2-3.   | 4.0       | 129       |
| 70 | Intercomponent and interfacial electron transfer processes in polynuclear metal complexes anchored on transparent TiO2 films. Journal of Chemical Sciences, 1997, 109, 397-409.   | 1.5       | 4         |
| 71 | Anchimeric Assistance by Platinum(II) in the Epimerizations of [PtX(CHXSiMe3)(R,R-chiraphos)].<br>Organometallics, 1996, 15, 5591-5597.   | 2.3       | 13        |
| 72 | Electron Transfer through Norbornadiene and Quadricyclane Moieties as a Model for Molecular<br>Switching. Inorganic Chemistry, 1996, 35, 711-714.   | 4.0       | 55        |

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|----|---|------|-----------|
| 73 | Redox properties of photoexcited (nBu4N)3PW12O40Felll porphyrins composite systems. Journal of<br>Molecular Catalysis A, 1996, 114, 141-150.  | 4.8  | 13        |
| 74 | Photosensitization of wide bandgap semiconductors with antenna molecules. Solar Energy Materials and Solar Cells, 1995, 38, 187-198.  | 6.2  | 43        |
| 75 | Long-Lived Photoinduced Charge Separation across Nanocrystalline TiO2 Interfaces. Journal of the American Chemical Society, 1995, 117, 11815-11816.   | 13.7 | 163       |
| 76 | Design of supramolecular systems for spectral sensitization of semiconductors. Solar Energy<br>Materials and Solar Cells, 1994, 32, 229-244.  | 6.2  | 47        |
| 77 | Testing of dye sensitized TiO2 solar cells I: Experimental photocurrent output and conversion efficiencies. Solar Energy Materials and Solar Cells, 1994, 32, 259-272.  | 6.2  | 317       |
| 78 | Photoinduced energy and electron transfer in inorganic covalently linked systems. Journal of Photochemistry and Photobiology A: Chemistry, 1994, 82, 191-202.   | 3.9  | 33        |
| 79 | Vibrational and Electronic Spectroscopy of Electronically Excited Polychromophoric Ruthenium(II)<br>Complexes. Inorganic Chemistry, 1994, 33, 1652-1659.  | 4.0  | 67        |
| 80 | Electronic coupling between remote metal centers in cyanobridged polynuclear complexes.<br>Coordination Chemistry Reviews, 1993, 125, 283-292.  | 18.8 | 109       |
| 81 | Application of transient infrared spectroscopy to intramolecular energy transfer in<br>[(phen)(CO)3ReI(NC)RuII(CN)(bpy)2]+. Journal of the American Chemical Society, 1993, 115, 10996-10997.   | 13.7 | 67        |
| 82 | Electronic coupling in cyano-bridged ruthenium polypyridine complexes and role of electronic effects on cyanide stretching frequencies. Inorganic Chemistry, 1992, 31, 5260-5267.   | 4.0  | 164       |
| 83 | Long-range energy transfer in oligomeric metal complex assemblies. Journal of the American Chemical Society, 1992, 114, 8727-8729.  | 13.7 | 55        |
| 84 | Photoinduced intramolecular energy transfer processes in polynuclear ruthenium(II) polypyridine complexes. Design of long chain cyanobridged polynuclear species featuring vectorial energy transfer. Coordination Chemistry Reviews, 1991, 111, 261-266. | 18.8 | 38        |