

Konrad Szacilowski

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135
papers

3,543
citations

28
h-index

57
g-index

151
ext. papers

3,892
ext. citations

7.1
avg, IF

5.85
L-index

#	Paper	IF	Citations
135	Digital information processing in molecular systems. <i>Chemical Reviews</i> , 2008 , 108, 3481-548	68.1	714
134	Bioinorganic photochemistry: frontiers and mechanisms. <i>Chemical Reviews</i> , 2005 , 105, 2647-94	68.1	620
133	Titanium(IV) complexes as direct TiO ₂ photosensitizers. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 2687-2701	23.2	153
132	Light-driven OR and XOR programmable chemical logic gates. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4550-1	16.4	135
131	2012,		97
130	Molecular logic gates based on pentacyanoferrate complexes: from simple gates to three-dimensional logic systems. <i>Chemistry - A European Journal</i> , 2004 , 10, 2520-8	4.8	92
129	Interplay between iron complexes, nitric oxide and sulfur ligands: Structure, (photo)reactivity and biological importance. <i>Coordination Chemistry Reviews</i> , 2005 , 249, 2408-2436	23.2	81
128	Nanoscale optoelectronic switches and logic devices. <i>Nanoscale</i> , 2009 , 1, 299-316	7.7	61
127	S-Nitrosothiols: Materials, Reactivity and Mechanisms. <i>Progress in Reaction Kinetics and Mechanism</i> , 2001 , 26, 1-58	0.5	61
126	Optoelectronic switches based on wide band gap semiconductors. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15275-83	3.4	59
125	Photosensitization and the photocurrent switching effect in nanocrystalline titanium dioxide functionalized with iron(II) complexes: a comparative study. <i>Chemistry - A European Journal</i> , 2007 , 13, 5676-87	4.8	51
124	Photoelectrochemistry of n-type bismuth oxyiodide. <i>Electrochimica Acta</i> , 2013 , 104, 448-453	6.7	49
123	Synthesis, structure and photoelectrochemical properties of the TiO ₂ /Russian blue nanocomposite. <i>Journal of Materials Chemistry</i> , 2006 , 16, 4603-4611		49
122	Ligand and medium controlled photochemistry of iron and ruthenium mixed-ligand complexes: prospecting for versatile systems. <i>Coordination Chemistry Reviews</i> , 2000 , 208, 277-297	23.2	48
121	Chemical switches and logic gates based on surface modified semiconductors. <i>Comptes Rendus Chimie</i> , 2006 , 9, 315-324	2.7	42
120	Anomalous Photocathodic Behavior of CdS within the Urbach Tail Region. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6774-6784	3.8	41
119	Redox-controlled photosensitization of nanocrystalline titanium dioxide. <i>ChemPhysChem</i> , 2006 , 7, 2384-91	3.1	41

118	Reactions of the $[\text{Fe}(\text{CN})_5\text{NO}]^{2-}$ complex with biologically relevant thiols. <i>New Journal of Chemistry</i> , 2002 , 26, 1495-1502	3.6	38
117	Photocatalysis Involving a Visible Light-Induced Hole Injection in a Chromate(VI)/ TiO_2 System. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21762-21770	3.8	34
116	Molecular switches based on cyanoferrate complexes. <i>Coordination Chemistry Reviews</i> , 2002 , 229, 17-26	23.2	34
115	Photosensitization and Photocurrent Switching in Carminic Acid/Titanium Dioxide Hybrid Material. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 19131-19141	3.8	33
114	Ground and excited state properties of alizarin and its isomers. <i>Dyes and Pigments</i> , 2014 , 103, 202-213	4.6	32
113	Synaptic Behavior in an Optoelectronic Device Based on Semiconductor-Nanotube Hybrid. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500471	6.4	32
112	Synthesis and properties of ZnTe and ZnTe/ZnS core/shell semiconductor nanocrystals. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2877-2886	7.1	31
111	Redox characterization of semiconductors based on electrochemical measurements combined with UV-Vis diffuse reflectance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14256-61	3.6	31
110	Photoelectrochemical Photocurrent Switching Effect: A New Platform for Molecular Logic Devices. <i>Chimia</i> , 2007 , 61, 831-834	1.3	30
109	Working prototype of an optoelectronic XOR/OR/YES reconfigurable logic device based on nanocrystalline semiconductors. <i>Solid-State Electronics</i> , 2006 , 50, 1649-1655	1.7	30
108	Nanoscale Digital Devices Based on the Photoelectrochemical Photocurrent Switching Effect: Preparation, Properties and Applications. <i>Israel Journal of Chemistry</i> , 2011 , 51, 36-55	3.4	29
107	Spectroelectrochemical analysis of TiO_2 electronic states: Implications for the photocatalytic activity of anatase and rutile. <i>Catalysis Today</i> , 2018 , 309, 35-42	5.3	28
106	Bioinspired nanodevice based on the folic acid/titanium dioxide system. <i>Chemistry - an Asian Journal</i> , 2007 , 2, 580-90	4.5	27
105	Synaptic plasticity, metaplasticity and memory effects in hybrid organic-inorganic bismuth-based materials. <i>Nanoscale</i> , 2019 , 11, 1080-1090	7.7	25
104	UV-visible and $(1)\text{H}$ - $(15)\text{N}$ NMR spectroscopic studies of colorimetric thiosemicarbazide anion sensors. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 1662-72	3.9	25
103	A three-valued photoelectrochemical logic device realising accept anything and consensus operations. <i>Chemical Communications</i> , 2015 , 51, 3559-61	5.8	23
102	Photoelectrochemistry of n-type antimony sulfiodide nanowires. <i>Nanotechnology</i> , 2015 , 26, 105710	3.4	22
101	Photochemistry of the $[\text{Fe}(\text{CN})_5\text{N}(\text{O})\text{SR}]^{3-}$ complex. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 143, 99-108	4.7	22

100	Lead molybdate is a promising material for optoelectronics and photocatalysis. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2614-2623	7.1	21
99	Molecules, semiconductors, light and information: Towards future sensing and computing paradigms. <i>Coordination Chemistry Reviews</i> , 2018 , 365, 23-40	23.2	21
98	Coordination chemistry for information acquisition and processing. <i>Coordination Chemistry Reviews</i> , 2016 , 325, 135-160	23.2	21
97	Catecholate and 2,3-acenediolate complexes of d0 ions as prospective materials for molecular electronics and spintronics. <i>Coordination Chemistry Reviews</i> , 2012 , 256, 1706-1731	23.2	20
96	Photocurrent Switching Effects in TiO ₂ Modified with Ruthenium Polypyridine Complexes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12187-12195	3.8	20
95	Molecular engineering of logic gate types by module rearrangement in 'Pourbaix Sensors': the effect of excited-state electric fields. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 6195-6201	3.9	19
94	Metal-to-metal electron-transfer emission in cyanide-bridged chromium-ruthenium complexes: effects of configurational mixing between ligand field and charge transfer excited states. <i>Inorganic Chemistry</i> , 2008 , 47, 10921-34	5.1	19
93	Solid-state structures and magnetic properties of halide-bridged, face-to-face bis-nickel(II)-macrocyclic ligand complexes: ligand-mediated interchanges of electronic configuration. <i>Inorganic Chemistry</i> , 2005 , 44, 6019-33	5.1	19
92	Bi(x)La(1-x)VO ₄ solid solutions: tuning of electronic properties via stoichiometry modifications. <i>Nanoscale</i> , 2014 , 6, 2244-54	7.7	18
91	Electrochemically deposited nanocrystalline InSb thin films and their electrical properties. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1345-1350	7.1	17
90	Novel, Microwave Assisted Route of Synthesis of Binary Oxide Semiconducting Phases [PbMoO ₄ And PbWO ₄ / Nowa Metoda Syntezy Binarnych Faz Tlenkowych O Charakterze Przewodnikowym W Polu Mikrofalowym [PbMoO ₄ I PbWO ₄ . <i>Archives of Metallurgy and Materials</i> , 2013 , 58, 217-222		17
89	Towards 'Computer-on-a-Particle' Devices: Optoelectronic 1:2 Demultiplexer Based on Nanostructured Cadmium Sulfide. <i>Australian Journal of Chemistry</i> , 2010 , 63, 165	1.2	17
88	Photochemistry of the [FeIII(edta)(H ₂ O)] ⁻ and [FeIII(edta)(OH)] ²⁻ complexes in presence of environmentally relevant species. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 188, 128-134	4.7	17
87	Photochemistry of the [Fe(CN) ₅ NO] ²⁻ thiolate system. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999 , 2353-2358		17
86	Heavy pnictogen chalcogenides: the synthesis, structure and properties of these rediscovered semiconductors. <i>Chemical Communications</i> , 2018 , 54, 12133-12162	5.8	17
85	Arithmetic Device Based on Multiple Schottky-like Junctions. <i>Australian Journal of Chemistry</i> , 2010 , 63, 1330	1.2	16
84	Supramolecular Complexes of Graphene Oxide with Porphyrins: An Interplay between Electronic and Magnetic Properties. <i>Molecules</i> , 2019 , 24,	4.8	16
83	Photoelectrochemical study of ZnSe electrodeposition on Cu electrode. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 674, 108-112	4.1	15

82	Fluorimetric naphthalimide-based polymer logic beads responsive to acidity and oxidisability. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 15225-15232	7.1	15
81	Influence of Halide Intermolecular Interactions on Electronic Properties of Tin(IV) Iodide Semiconducting Complexes. <i>Inorganic Chemistry</i> , 2016 , 55, 5935-45	5.1	13
80	An electrospray ionization mass spectrometry study of the nitroprusside-thiolate system. <i>Dalton Transactions RSC</i> , 2002 , 3649-3655		13
79	Memristor in a Reservoir System-Experimental Evidence for High-Level Computing and Neuromorphic Behavior of Pbl. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17009-17018	9.5	12
78	Photocatalytic Activity of TiO ₂ Modified with Hexafluorometallates Fine Tuning of Redox Properties by Redox-Innocent Anions. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24915-24924	3.8	11
77	The role of photoinduced electron transfer processes in photodegradation of the [Fe ₄ (μ ₃ -S) ₃ (NO) ₇]- cluster. <i>Nitric Oxide - Biology and Chemistry</i> , 2006 , 15, 370-9	5	11
76	Neuromorphic Applications of a Multivalued [SnI ₄ {(C ₆ H ₅) ₂ SO} ₂] Memristor Incorporated in the Echo State Machine. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 329-338	4	11
75	Liquid metal droplet solves maze. <i>Soft Matter</i> , 2020 , 16, 1455-1462	3.6	11
74	Organotitania-Based Nanostructures as a Suitable Platform for the Implementation of Binary, Ternary, and Fuzzy Logic Systems. <i>ChemPhysChem</i> , 2017 , 18, 1798-1810	3.2	10
73	Kinetics and Mechanism of Redox Reaction between Tetrachloroaurate(III) Ions and Hydrazine. <i>International Journal of Chemical Kinetics</i> , 2014 , 46, 328-337	1.4	10
72	Influence of pulse frequency on physicochemical properties of InSb films obtained via electrodeposition. <i>Electrochimica Acta</i> , 2019 , 304, 396-404	6.7	9
71	Light intensity-induced photocurrent switching effect. <i>Nature Communications</i> , 2020 , 11, 854	17.4	9
70	Halogen-containing semiconductors: From artificial photosynthesis to unconventional computing. <i>Coordination Chemistry Reviews</i> , 2020 , 415, 213316	23.2	9
69	Adsorption of selected ions on the anatase TiO ₂ (101) surface: a density-functional study. <i>Molecular Simulation</i> , 2009 , 35, 567-576	2	9
68	Alizarin complexone: an interesting ligand for designing TiO ₂ -hybrid nanostructures. <i>New Journal of Chemistry</i> , 2013 , 37, 969	3.6	8
67	Biomedical implications of information processing in chemical systems: non-classical approach to photochemistry of coordination compounds. <i>BioSystems</i> , 2007 , 90, 738-49	1.9	8
66	Photochemistry of the [Fe ₄ (μ ₃ -S) ₃ (NO) ₇]- complex in the presence of S-nucleophiles: a spectroscopic study. <i>Nitric Oxide - Biology and Chemistry</i> , 2006 , 14, 247-60	5	8
65	Colorimetric Naphthalene-Based Thiosemicarbazide Anion Chemosensors with an Internal Charge Transfer Mechanism. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 4415-4422	3.2	8

64	Water-Soluble Colorimetric Amino[(ethanesulfonate)] Azobenzene pH Indicators: A UV-Vis Absorption, DFT, and H-N NMR Spectroscopy Study. <i>ACS Omega</i> , 2017 , 2, 6159-6166	3.9	7
63	TiO ₂ /Anthraquinone hybrids: from quantum-chemical design to functional materials. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4148-4155	7.1	7
62	Optical signal demultiplexing and conversion in the fullerene/oligothiophene/CdS system. <i>Applied Surface Science</i> , 2014 , 319, 285-290	6.7	7
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60	Photoredox reactions of Cr(III) mixed-ligand complexes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010 , 209, 121-127	4.7	7
59	Triiodide Organic Salts: Photoelectrochemistry at the Border between Insulators and Semiconductors. <i>ChemElectroChem</i> , 2018 , 5, 3486-3497	4.3	6
58	Hardware Realization of the Pattern Recognition with an Artificial Neuromorphic Device Exhibiting a Short-Term Memory. <i>Molecules</i> , 2019 , 24,	4.8	6
57	Molecular Photodiode and Two-channel Optoelectronic Demultiplexer based on the [60]Fullerene-porphyrin Tetrad. <i>Australian Journal of Chemistry</i> , 2011 , 64, 1409	1.2	6
56	Nanoparticles with logic and numeracy: towards "computer-on-a-particle" optoelectronic devices. <i>IET Circuits, Devices and Systems</i> , 2011 , 5, 103	1.1	6
55	Towards synthetic neural networks: can artificial electrochemical neurons be coupled with artificial memristive synapses?. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, SI0801	1.4	5
54	Enhanced ion binding by the benzocrown receptor and a carbonyl of the aminonaphthalimide fluorophore in water-soluble logic gates. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 4773-4782	3.9	5
53	In-materioneuromimetic devices: dynamics, information processing and pattern recognition. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, 050504	1.4	5
52	Interactions between graphene oxide and wide band gap semiconductors. <i>Journal of Physics: Conference Series</i> , 2016 , 745, 032102	0.3	4
51	Bismuth triiodide complexes: structure, spectroscopy, electronic properties, and memristive properties. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 6136-6148	7.1	4
50	Charge transfer tuning in TiO ₂ hybrid nanostructures with acceptor/acceptor systems. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2415-2424	7.1	3
49	Tuning of electronic properties of fullerene-oligothiophene layers. <i>Applied Physics Letters</i> , 2015 , 106, 041602	3.4	3
48	Supramolecular assemblies of semiconductor quantum dots and a bis(bipyridinium) derivative: luminescence quenching and aggregation phenomena. <i>RSC Advances</i> , 2014 , 4, 29847-29854	3.7	3
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46	Unconventional Computing Realized with Hybrid Materials Exhibiting the PhotoElectrochemical Photocurrent Switching (PEPS) Effect. <i>Emergence, Complexity and Computation</i> , 2017 , 429-467	0.1	3
45	New Type of Photoactive Materials Based on TiO ₂ Modified by Anthraquinone Derivatives / Nowe Fotoaktywne Materiały W Oparciu O TiO ₂ Modyfikowany Pochodnymi Antrachinonu. <i>Archives of Metallurgy and Materials</i> , 2013 , 58, 269-273		3
44	Acoustic wave sensing devices and their LTCC packaging 2014 ,		2
43	On the influence of magnetic field on electrodeposition of NiTiO ₂ composites from a citrate baths. <i>Materials Chemistry and Physics</i> , 2020 , 255, 123550	4.4	2
42	Brief Insights into Cu ₂ O Electrodeposition: Detailed Progressive Voltammetric and Electrogravimetric Analysis of a Copper Lactate System. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 042504	3.9	1
41	Photoelectrochemical Photocurrent Switching and Related Phenomena 2012 , 165-197		1
40	Photodynamic Inactivation of Microorganisms 335-343		1
39	In Situ Regeneration of Copper-Coated Gas Diffusion Electrodes for Electroreduction of CO to Ethylene. <i>Materials</i> , 2021 , 14,	3.5	1
38	Light-Induced Synaptic Effects Controlled by Incorporation of Charge-Trapping Layer into Hybrid Perovskite Memristor. <i>Advanced Electronic Materials</i> , 2100838	6.4	1
37	Hybrid Semiconducting Materials: New Perspectives for Molecular-Scale Information Processing 2013 , 121-173		0
36	Spectral properties of polycrystalline MoS ₂ films grown by RF magnetron sputtering. <i>Journal of Applied Physics</i> , 2021 , 130, 224302	2.5	0
35	Molecular Logic Gates 2012 , 249-322		
34	Introduction to the Theory of Information 2012 , 1-21		
33	Molecular Computing Systems 2012 , 323-403		
32	Bioinspired and Biomimetic Logic Devices 2012 , 405-456		
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2 Molecules on Semiconductors. *The Electrical Engineering Handbook*, **2012**, 367-396

1 Synthesis and spectroscopic studies of diaza-8-crown-4-dinitrophenyl ethers. *Supramolecular Chemistry*, **2020**, 32, 13-22

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