

Michal Zalibera

List of Publications by Year in descending order

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63
papers

1,536
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304602

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65
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Helicene Quinones: Redox-Triggered Chiroptical Switching and Chiral Recognition of the Semiquinone Radical Anion Lithium Salt by Electron Nuclear Double Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 13045-13052.	6.6	119
2	Air-stable redox-active nanomagnets with lanthanide spins radical-bridged by a metal–metal bond. <i>Nature Communications</i> , 2019, 10, 571.	5.8	112
3	In Situ EPR Study of the Redox Properties of CuO–CeO ₂ Catalysts for Preferential CO Oxidation (PROX). <i>ACS Catalysis</i> , 2016, 6, 3520-3530.	5.5	97
4	Adsorption and activation of molecular oxygen over atomic copper(I/II) site on ceria. <i>Nature Communications</i> , 2020, 11, 4008.	5.8	95
5	Atomic-Scale Explanation of O ₂ Activation at the Au–TiO ₂ Interface. <i>Journal of the American Chemical Society</i> , 2018, 140, 18082-18092.	6.6	69
6	Dopant Engineering for Spiro-OMeTAD Hole-Transporting Materials towards Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2102124.	7.8	67
7	Simple One-Pot Syntheses of Water-Soluble Bis(acyl)phosphane Oxide Photoinitiators and Their Application in Surfactant-Free Emulsion Polymerization. <i>Macromolecular Rapid Communications</i> , 2015, 36, 553-557.	2.0	66
8	Thermal generation of stable spin trap adducts with super-hyperfine structure in their EPR spectra: An alternative EPR spin trapping assay for radical scavenging capacity determination in dimethylsulphoxide. <i>Free Radical Research</i> , 2009, 43, 457-469.	1.5	61
9	Antioxidant and radical-scavenging activities of Slovak honeys – An electron paramagnetic resonance study. <i>Food Chemistry</i> , 2008, 110, 512-521.	4.2	60
10	Charge-Induced Reversible Rearrangement of Endohedral Fullerenes: Electrochemistry of Tridysprosium Nitride Clusterfullerenes Dy ₃ N@C _{2n} (2n=78, 80). <i>Chemistry - A European Journal</i> , 2006, 12, 7848-7855.	1.7	53
11	6,6-Dicyanopentafulvenes: Electronic Structure and Regioselectivity in [2 + 2] Cycloaddition–Retroelectrocyclization Reactions. <i>Journal of the American Chemical Society</i> , 2012, 134, 18139-18146.	6.6	51
12	Antioxidant activity, Î ² -glucan and lipid contents of oat varieties. <i>Czech Journal of Food Sciences</i> , 2008, 26, 163-173.	0.6	40
13	EPR characterization of Mn(II) complexes for distance determination with pulsed dipolar spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25120-25135.	1.3	40
14	Extending the Scope of Bis(acyl)phosphane Oxides: Additional Derivatives. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2469-2478.	1.0	35
15	Ruthenium-nitrosyl complexes as NO-releasing molecules, potential anticancer drugs, and photoswitches based on linkage isomerism. <i>Dalton Transactions</i> , 2022, 51, 5367-5393.	1.6	35
16	NO Releasing and Anticancer Properties of Octahedral Ruthenium–Nitrosyl Complexes with Equatorial 1 <i>H</i> -Indazole Ligands. <i>Inorganic Chemistry</i> , 2018, 57, 10702-10717.	1.9	34
17	Electron transfer: A primary step in the reactions of sodium hydrosulphide, an H ₂ S/HS [•] donor. <i>Free Radical Research</i> , 2009, 43, 581-593.	1.5	30
18	Star-shaped Polymers through Simple Wavelength-Selective Free Radical Photopolymerization. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14306-14309.	7.2	30

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19	Donor-Substituted Octacyano[4]dendralenes: Investigation of π -Electron Delocalization in Their Radical Ions. <i>Journal of Organic Chemistry</i> , 2013, 78, 1760-1767.	1.7	27
20	Push-Pull Buta-1,2,3-trienes: Exceptionally Low Rotational Barriers of Cumulenic C \equiv C Bonds and Proacetylenic Reactivity. <i>Chemistry - A European Journal</i> , 2015, 21, 6215-6225.	1.7	26
21	Scavenging and antioxidant properties of compounds synthesized by carotenogenic yeasts stressed by heavy metals—EPR spin trapping study. <i>Biophysical Chemistry</i> , 2005, 116, 1-9.	1.5	25
22	The Extended View on the Empty $C_{2(3)C_{82}}$ Fullerene: Isolation, Spectroscopic, Electrochemical, and Spectroelectrochemical Characterization and DFT Calculations. <i>Chemistry - A European Journal</i> , 2008, 14, 9960-9967.	1.7	23
23	Bis(mesityl)phosphinic acid: photo-triggered release of metaphosphorous acid in solution. <i>Chemical Communications</i> , 2016, 52, 9917-9920.	2.2	17
24	In situ ESR—UV/VIS/NIR spectroelectrochemistry of an empty fullerene anion and cation: The C $_{82}$:3 isomer. <i>Electrochemistry Communications</i> , 2007, 9, 2843-2847.	2.3	16
25	From Homoconjugated Push-Pull Chromophores to Donor-Acceptor-Substituted Spiro Systems by Thermal Rearrangement. <i>Chemistry - A European Journal</i> , 2014, 20, 1279-1286.	1.7	16
26	Nickel(II) Complexes with Redox Noninnocent Octaazamacrocycles as Catalysts in Oxidation Reactions. <i>Inorganic Chemistry</i> , 2019, 58, 11133-11145.	1.9	16
27	Charged States of Four Isomers of C_{84} Fullerene: In Situ ESR and Vis-NIR Spectroelectrochemistry and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5141-5149.	1.5	15
28	Stable Radical Trianions from Reversibly Formed Sigma-Dimers of Selenadiazoloquinolones Studied by In Situ EPR/UV-vis Spectroelectrochemistry and Quantum Chemical Calculations. <i>Journal of Physical Chemistry A</i> , 2012, 116, 9919-9927.	1.1	15
29	Monotrimethylene-Bridged Bis(<i>p</i> -phenylenediamine Radical Cations and Dications: Spin States, Conformations, and Dynamics. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1439-1448.	1.1	15
30	A Bis(μ -chlorido)-Bridged Cobalt(II) Complex with Silyl-Containing Schiff Base as a Catalyst Precursor in the Solvent-Free Oxidation of Cyclohexane. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4324-4332.	1.0	15
31	Photoredox-Switchable Resorcin[4]arene Cavitands: Radical Control of Molecular Gripping Machinery via Hydrogen Bonding. <i>Chemistry - A European Journal</i> , 2018, 24, 1431-1440.	1.7	15
32	Screening of cereal varieties for antioxidant and radical scavenging properties applying various spectroscopic and thermoanalytical methods. <i>International Journal of Food Science and Technology</i> , 2009, 44, 784-791.	1.3	12
33	Paramagnetic Molecular Grippers: The Elements of Six-State Redox Switches. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2470-2477.	2.1	12
34	Thermally Activated Delayed Fluorescence in a $Y_{3N@C_{80}}$ Endohedral Fullerene: Time-Resolved Luminescence and EPR Studies. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 277-281.	7.2	12
35	cis-Tetrachlorido-bis(indazole)osmium(IV) and its osmium(III) analogues: paving the way towards the cis-isomer of the ruthenium anticancer drugs KP1019 and/or NKP1339. <i>Dalton Transactions</i> , 2017, 46, 11925-11941.	1.6	11
36	Antimutagenic and radical scavenging activity of wheat bran. <i>Cereal Research Communications</i> , 2009, 37, 45-55.	0.8	10

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37	Chemical modification of corn fiber with ion-exchanging groups. <i>Carbohydrate Polymers</i> , 2009, 76, 250-254.	5.1	10
38	The Redox Chemistry of Mono- and Bis(acyl)phosphane Oxides. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 331-337.	1.2	10
39	¹⁹ F NMR-, ESR-, and vis-NIR-spectroelectrochemical study of the unconventional reduction behaviour of a perfluoroalkylated fullerene: dimerization of the C ₇₀ (CF ₃) ₁₀ radical anion. <i>Analyst</i> , 2015, 140, 7209-7216.	1.7	9
40	Wellenlängen-selektive freie radikalische Photopolymerisation zur einfachen Herstellung von Sternpolymeren. <i>Angewandte Chemie</i> , 2017, 129, 14496-14499.	1.6	9
41	Spectro-electrochemical toolbox for monitoring and controlling quinone-mediated redox-driven molecular gripping. <i>Electrochimica Acta</i> , 2019, 313, 544-560.	2.6	9
42	Reaction of Benzopinacol with Non-ionic Bases: Reversing the Pinacol Coupling. <i>Organic Letters</i> , 2013, 15, 4627-4629.	2.4	7
43	Light-actuated resorcin[4]arene cavitands. <i>Tetrahedron</i> , 2018, 74, 5615-5626.	1.0	7
44	Stimuli-Responsive Resorcin[4]arene Cavitands: Toward Visible-Light-Activated Molecular Grippers. <i>Chemistry - A European Journal</i> , 2020, 26, 11451-11461.	1.7	7
45	Metallofullerene photoswitches driven by photoinduced fullerene-to-metal electron transfer. <i>Chemical Science</i> , 2021, 12, 7818-7838.	3.7	7
46	The Ruthenium Nitrosyl Moiety in Clusters: Trinuclear Linear μ_4 -Hydroxido Magnesium(II)-Diruthenium(II), μ_3 -Oxido Trinuclear Diiron(III)-Ruthenium(II), and Tetranuclear μ_4 -Oxido Trigallium(III)-Ruthenium(II) Complexes. <i>Inorganic Chemistry</i> , 2022, 61, 950-967.	1.9	7
47	The power of in situ ESR spectroelectrochemistry in the analysis of a C84 fullerene isomer. <i>Electrochemistry Communications</i> , 2008, 10, 943-946.	2.3	6
48	Spectroelectrochemistry of Dendrimers: The Radical Cations of Low-Generation PAMAM-Like Dendrimers with a 1,4-Phenylenediamine Core As Studied by Electron Spin Resonance (ESR)/UV-Vis NIR Spectroelectrochemistry. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3942-3948.	1.5	6
49	Probing the first steps of photoinduced free radical polymerization at water-oil interfaces. <i>Polymer Chemistry</i> , 2017, 8, 6943-6947.	1.9	5
50	Spectroelectrochemical, photochemical and theoretical study of octaazamacrocyclic nickel(II) complexes exhibiting unusual solvent-dependent deprotonation of methylene group. <i>Electrochimica Acta</i> , 2019, 326, 135006.	2.6	5
51	Unprecedented Bifunctional Chemistry of Bis(acyl)phosphane Oxides in Aqueous and Alcoholic Media. <i>Chemistry - A European Journal</i> , 2019, 25, 8982-8986.	1.7	5
52	Thioether-Functionalized Quinone-Based Resorcin[4]arene Cavitands: Electroswitchable Molecular Actuators. <i>Helvetica Chimica Acta</i> , 2019, 102, e1800225.	1.0	5
53	Diastereomeric dinickel complexes with non-innocent bis(octaazamacrocyclic) ligands: isomerization, spectroelectrochemistry, DFT calculations and use in catalytic oxidation of cyclohexane. <i>Dalton Transactions</i> , 2022, 51, 5151-5167.	1.6	5
54	Anodic oxidation of selenadiazoloquinolones in alkaline media. <i>Magnetic Resonance in Chemistry</i> , 2011, 49, 168-174.	1.1	4

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55	Polyradical PROXYL/TEMPO-Derived Amides: Synthesis, Physicochemical Studies, DFT Calculations, and Antimicrobial Activity. <i>ChemPlusChem</i> , 2017, 82, 1326-1340.	1.3	4
56	Tuning Redox Properties and Self-Assembly of Thienoacene-Extended Tetrathiafulvalenes. <i>ChemPlusChem</i> , 2019, 84, 1279-1287.	1.3	4
57	Microwave-assisted regioselective synthesis and isomerization of 6-O-vanillyl- and 6-O-iso-vanillyl hexoses and studies of their activities as radical scavengers by EPR spectroscopy. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 756-761.	1.8	3
58	Ni Oxidation State and Ligand Saturation Impact on the Capability of Octaazamacrocyclic Complexes to Bind and Reduce CO ₂ . <i>Molecules</i> , 2021, 26, 4139.	1.7	3
59	Semiempirical Molecular Dynamics Study of Empty C ₂ (3)-C ₈₂ Fullerene in Neutral and Charged Forms: Geometrical and Spectroscopic Characterization. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19658-19663.	1.5	2
60	Thermally Activated Delayed Fluorescence in a Y ₃ N@C ₈₀ Endohedral Fullerene: Time-Resolved Luminescence and EPR Studies. <i>Angewandte Chemie</i> , 2018, 130, 283-287.	1.6	2
61	Charge-Transfer Salts of 6,6-Dicyanopentafulvenes: From Topology to Charge Separation in Solution. <i>Chemistry - A European Journal</i> , 2018, 24, 13616-13623.	1.7	1
62	Ortho-substituent-controlled regioselective cyclisation of 1,4-phenylenediacrylic acid to a linear benzo[1,2-b:4,5-b']dithiophene derivative as a building block for semiconducting materials. <i>Tetrahedron Letters</i> , 2020, 61, 151608.	0.7	1
63	Titania-mediated photoinduced fluorination of nitron spin traps in acetonitrile (an EPR study). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 432, 114111.	2.0	1