

# Andrzej Marcinek

## List of Publications by Year in descending order

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76  
papers

1,728  
citations

304602

22  
h-index

315616

38  
g-index

84  
all docs

84  
docs citations

84  
times ranked

1966  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient Species in the Stepwise Interconversion of NADH and NAD <sup>+</sup> . <i>Accounts of Chemical Research</i> , 2004, 37, 379-386.	7.6	148
2	Mechanism of oxidative conversion of Amplex <sup>®</sup> Red to resorufin: Pulse radiolysis and enzymatic studies. <i>Free Radical Biology and Medicine</i> , 2016, 95, 323-332.	1.3	108
3	Ionic Liquids: Novel Media for Characterization of Radical Ions. <i>Journal of Physical Chemistry A</i> , 2001, 105, 9305-9309.	1.1	101
4	Reaction between Peroxynitrite and Boronates: EPR Spin-Trapping, HPLC Analyses, and Quantum Mechanical Study of the Free Radical Pathway. <i>Chemical Research in Toxicology</i> , 2011, 24, 687-697.	1.7	87
5	Nitroxyl (HNO) Reacts with Molecular Oxygen and Forms Peroxynitrite at Physiological pH. <i>Journal of Biological Chemistry</i> , 2014, 289, 35570-35581.	1.6	64
6	Evidence for stepwise nitrogen extrusion and ring expansion upon photolysis of phenyl azide. <i>Journal of the American Chemical Society</i> , 1993, 115, 8609-8612.	6.6	62
7	Real-time Measurements of Amino Acid and Protein Hydroperoxides Using Coumarin Boronic Acid. <i>Journal of Biological Chemistry</i> , 2014, 289, 22536-22553.	1.6	61
8	Unusually long lifetimes of the singlet nitrenes derived from 4-azido-2,3,5,6-tetrafluorobenzamides. <i>The Journal of Physical Chemistry</i> , 1994, 98, 412-419.	2.9	59
9	Zinc-Catalyzed Cycloisomerizations. Synthesis of Substituted Furans and Furopyrimidine Nucleosides. <i>Journal of Organic Chemistry</i> , 2008, 73, 5881-5889.	1.7	56
10	Toward selective detection of reactive oxygen and nitrogen species with the use of fluorogenic probes – Limitations, progress, and perspectives. <i>Pharmacological Reports</i> , 2015, 67, 756-764.	1.5	54
11	Hydrogen-Transferred Radical Cations of NADH Model Compounds. 1. Spontaneous Tautomerization. <i>Journal of the American Chemical Society</i> , 2000, 122, 437-443.	6.6	42
12	Characterization of Fluorescein-Based Monoboronate Probe and Its Application to the Detection of Peroxynitrite in Endothelial Cells Treated with Doxorubicin. <i>Chemical Research in Toxicology</i> , 2016, 29, 735-746.	1.7	37
13	Deduction of the activation parameters for ring expansion and intersystem crossing in fluorinated singlet phenylnitrenes. <i>The Journal of Physical Chemistry</i> , 1993, 97, 12674-12677.	2.9	32
14	Mechanistic Aspects of the Oxidative and Reductive Fragmentation of N-Nitrosoamines: A New Method for Generating Nitrenium Cations, Amide Anions, and Aminyl Radicals. <i>Journal of the American Chemical Society</i> , 2007, 129, 3211-3217.	6.6	32
15	Antithrombotic Effects of Pyridinium Compounds Formed from Trigonelline upon Coffee Roasting. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 2853-2860.	2.4	31
16	Direct Observation of NADH Radical Cation Generated in Reactions with One-Electron Oxidants. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9860-9864.	1.1	30
17	1-methylnicotinamide and its structural analog 1,4-dimethylpyridine for the prevention of cancer metastasis. <i>Journal of Experimental and Clinical Cancer Research</i> , 2016, 35, 110.	3.5	29
18	Fluorescent probes for the detection of nitroxyl (HNO). <i>Free Radical Biology and Medicine</i> , 2018, 128, 69-83.	1.3	29

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19	Naphthoylenebenzimidazolone dyes as electron transfer photosensitizers for iodonium salt induced cationic photopolymerizations. <i>Dyes and Pigments</i> , 2012, 95, 252-259.	2.0	26
20	Flow Mediated Skin Fluorescence technique reveals remarkable effect of age on microcirculation and metabolic regulation in type 1 diabetes. <i>Microvascular Research</i> , 2019, 124, 19-24.	1.1	25
21	Electronic absorption spectra of aliphatic diamine radical cations. Conformation-dependent charge delocalization. <i>Journal of Physical Organic Chemistry</i> , 1990, 3, 606-610.	0.9	24
22	Structural Aspects and Rearrangement of Radical Cations Generated from NADH Analogues. <i>Journal of the American Chemical Society</i> , 1996, 118, 691-692.	6.6	24
23	Microenvironmental effects in solid-state reactions. Dispersive kinetics of conformation-dependent charge delocalization in aliphatic diamine radical cations. <i>Journal of Physical Organic Chemistry</i> , 1990, 3, 757-759.	0.9	22
24	Valence isomerization of hexamethyl(Dewar benzene) radical cation. Pulse-radiolytic investigation. <i>Journal of the American Chemical Society</i> , 1989, 111, 3098-3099.	6.6	21
25	Sequential Electron <sup>•+</sup> Proton <sup>•+</sup> Electron Transfer in the Radiolytic and Photochemical Oxidation of Thioxanthene and Xanthene. <i>The Journal of Physical Chemistry</i> , 1996, 100, 13539-13543.	2.9	21
26	Dihalide and Pseudohalide Radical Anions as Oxidizing Agents in Nonaqueous Solvents. <i>Journal of Physical Chemistry A</i> , 2010, 114, 861-866.	1.1	21
27	Non-invasive evaluation of microcirculation and metabolic regulation using flow mediated skin fluorescence (FMSF): Technical aspects and methodology. <i>Review of Scientific Instruments</i> , 2019, 90, .	0.6	21
28	Enolization in radical cations of o-methylacetophenone and related species under cryogenic conditions. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1992, , 1353.	0.9	20
29	Disproportionation of Clozapine Radical: A Link between One-Electron Oxidation of Clozapine and Formation of Its Nitrenium Cation. <i>Chemical Research in Toxicology</i> , 2007, 20, 1093-1098.	1.7	20
30	Hydrogen-Transferred Radical Cations of NADH Model Compounds. 2. Sequential Electron <sup>•+</sup> Proton Addition to NAD <sup>+</sup> . <i>Journal of Physical Chemistry A</i> , 2000, 104, 718-723.	1.1	18
31	Anthralin: Primary Products of Its Redox Reactions. <i>Journal of Organic Chemistry</i> , 2006, 71, 5312-5319.	1.7	18
32	Spontaneous hydrogen-atom transfer upon ionization: characterization of enol radical cations. <i>Journal of Molecular Structure</i> , 1992, 275, 249-255.	1.8	17
33	Flowmotion Monitored by Flow Mediated Skin Fluorescence (FMSF): A Tool for Characterization of Microcirculatory Status. <i>Frontiers in Physiology</i> , 2020, 11, 702.	1.3	17
34	Radical scavenging and NO-releasing properties of selected Î²-adrenoreceptor antagonists. <i>Free Radical Research</i> , 2006, 40, 741-752.	1.5	16
35	Radicals and Radical Ions Derived from Indole, Indole-3-carbinol and Diindolylmethane. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6787-6794.	1.1	16
36	Note: Flow mediated skin fluorescence – A novel technique for evaluation of cutaneous microcirculation. <i>Review of Scientific Instruments</i> , 2016, 87, 036111.	0.6	16

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37	The Radical Cation of anti-Tricyclooctadiene and Its Rearrangement Products. <i>Chemistry - A European Journal</i> , 2000, 6, 849-857.	1.7	15
38	Hydrogen-Transferred Radical Cations of NADH Model Compounds. 3. 1,8-Acridinediones. <i>Journal of Physical Chemistry A</i> , 2000, 104, 724-728.	1.1	15
39	Color changes accompanying one-electron reduction and oxidation of the azo dyes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 163, 373-379.	2.0	15
40	Electron Transfer Chemistry of Psoralen and Coumarin Derivatives by Means of Radiolytic and Electrochemical Experiments. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2124-2130.	1.1	14
41	Oxidation of ethidium-based probes by biological radicals: mechanism, kinetics and implications for the detection of superoxide. <i>Scientific Reports</i> , 2020, 10, 18626.	1.6	14
42	Flow-Mediated Skin Fluorescence (FMSF) Technique for Studying Vascular Complications in Type 2 Diabetes. <i>Journal of Diabetes Science and Technology</i> , 2020, 14, 693-694.	1.3	12
43	The Radical Cation of syn-Tricyclooctadiene and Its Rearrangement Products. <i>Chemistry - A European Journal</i> , 2000, 6, 858-868.	1.7	11
44	Electron-Transfer-Induced Tautomerization in Methylindanones: Electronic Control of the Tunneling Rate for Enolization. <i>Journal of the American Chemical Society</i> , 2001, 123, 2377-2387.	6.6	11
45	Pulse radiolysis and spectrophotometric studies on the binding of organic cations with heparin. <i>Radiation Physics and Chemistry</i> , 2014, 99, 6-11.	1.4	11
46	Decomposition of Piloty's acid derivatives – Toward the understanding of factors controlling HNO release. <i>Archives of Biochemistry and Biophysics</i> , 2019, 661, 132-144.	1.4	11
47	Effect of Heparin on Viologen-Stimulated Enzymatic NADH Depletion. <i>Chemical Research in Toxicology</i> , 2006, 19, 668-673.	1.7	10
48	Assessment of Microcirculatory Status Based on Stimulation of Myogenic Oscillations by Transient Ischemia: From Health to Disease. <i>Vascular Health and Risk Management</i> , 2021, Volume 17, 33-36.	1.0	10
49	Differentiation of Diabetic Foot Ulcers Based on Stimulation of Myogenic Oscillations by Transient Ischemia. <i>Vascular Health and Risk Management</i> , 2021, Volume 17, 145-152.	1.0	10
50	Direct Characterization of Hexamethyl(Dewar Benzene) Radical Cation by Electronic Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1998, 102, 7761-7764.	1.1	9
51	Electrochemical and photochemical reduction of a series of azobenzene dyes in protic and aprotic solvents. <i>Coloration Technology</i> , 2003, 119, 269-274.	0.7	9
52	The relationship between the electrochemical and photochemical reduction of some azo dyes derived from 2-aminobenzothiazole. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 171, 69-76.	2.0	9
53	Radical scavenging properties of nicotinamide and its metabolites. <i>Radiation Physics and Chemistry</i> , 2008, 77, 259-266.	1.4	9
54	Mechanistic Aspects of Alloxan Diabetogenic Activity: A Key Role of Keto-Enol Inversion of Dialuric Acid on Ionization. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7272-7278.	1.1	8

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55	Dimer Radical Cations of Indole and Indole-3-carbinol: Localized and Delocalized Radical Cations of Diindolylmethane. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7700-7708.	1.1	8
56	6-Pyridinium benzo[a]phenazine-5-oxide derivatives as visible photosensitisers for polymerisation. <i>Coloration Technology</i> , 2014, 130, 250-259.	0.7	8
57	New Approach to Non-Invasive Assessment of Vascular Circulation Based on the Response to Transient Ischemia. <i>Vascular Health and Risk Management</i> , 2022, Volume 18, 113-116.	1.0	8
58	Fluorescent probes for monitoring myeloperoxidase-derived hypochlorous acid: a comparative study. <i>Scientific Reports</i> , 2022, 12, .	1.6	8
59	Direct Characterization of Radical Species Generated on One-Electron Oxidation of 3,6-Diamino-10-methylacridan. <i>Journal of Physical Chemistry A</i> , 2001, 105, 875-879.	1.1	7
60	Benzopinacol Radical Cation. <i>Journal of Physical Chemistry A</i> , 2003, 107, 810-814.	1.1	7
61	Mechanistic Aspects of Radiation-Induced Oligomerization of 3,4-Ethylenedioxythiophene in Ionic Liquids. <i>Journal of Physical Chemistry A</i> , 2010, 114, 11552-11559.	1.1	7
62	Can the microcirculatory response to hypoxia be a prognostic factor for Covid-19?. <i>Respiratory Physiology and Neurobiology</i> , 2020, 280, 103478.	0.7	7
63	Photochemical and radiolytic cleavage of 10-methylacridine dimer in solutions and cryogenic glasses. <i>Journal of Physical Organic Chemistry</i> , 1993, 6, 254-256.	0.9	6
64	1-Methyl-3-nitropyridine: An Efficient Oxidant of NADH in Non-enzymatic and Enzyme-mediated Processes. <i>Free Radical Research</i> , 2003, 37, 1157-1162.	1.5	6
65	Isomerization of Cubane Radical Cation. <i>Journal of Physical Chemistry A</i> , 2000, 104, 5265-5268.	1.1	5
66	Can efficient stimulation of myogenic microcirculatory oscillations by transient ischemia predict low incidence of COVID-19 infection?. <i>Respiratory Physiology and Neurobiology</i> , 2021, 286, 103618.	0.7	5
67	Vibrational relaxation in pyridine-benzene and cyclohexane-carbon tetrachloride systems. <i>Chemical Physics Letters</i> , 1984, 108, 245-249.	1.2	4
68	The effects of 1,4-dimethylpyridine in metastatic prostate cancer in mice. <i>BMC Cancer</i> , 2017, 17, 177.	1.1	3
69	A derivative of vitamin B3 applied several days after exposure reduces lethality of severely irradiated mice. <i>Scientific Reports</i> , 2021, 11, 7922.	1.6	3
70	A specific resistance of aminoazo dyes to the oxidative degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 188, 267-271.	2.0	2
71	Benzothiazine Dyes/2,4,6-Tris(trichloromethyl)-1,3,5-triazine as a New Visible Two-Component Photoinitiator System. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-8.	1.4	2
72	N,N,N',N'-tetramethylhydroethidine (TMHE) - in search for better probes for the detection of superoxide radical anion. <i>Free Radical Biology and Medicine</i> , 2017, 108, S38.	1.3	2

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73	4-Methylpseudoproline analogues of cyclolinopeptide A: Synthesis, structural analysis and evaluation of their suppressive effects in selected immunological assays. <i>Peptides</i> , 2020, 132, 170365.	1.2	1
74	Low temperature pulse radiolysis as a method to study fast isomerization processes in molecular cations. <i>International Journal of Radiation Applications and Instrumentation Nuclear Tracks and Radiation Measurements</i> , 1992, 39, 41-44.	0.0	0
75	Transient Species in the Stepwise Interconversion of NADH and NAD <sup>+</sup> . <i>ChemInform</i> , 2004, 35, no.	0.1	0
76	The Mechanism of the Oxidative Transformation of Boronate Compounds - A Quantum Mechanical Study. <i>Free Radical Biology and Medicine</i> , 2010, 49, S216.	1.3	0