

Waldemar Bednarski

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83
papers

1,019
citations

18
h-index

27
g-index

86
ext. papers

1,157
ext. citations

3
avg, IF

3.93
L-index

#	Paper	IF	Citations
83	A comparative study of water distribution, free radical production and activation of antioxidative metabolism in germinating pea seeds. <i>Journal of Plant Physiology</i> , 2006 , 163, 1207-20	3.6	84
82	Oxidative stress in pea seedling leaves in response to <i>Acyrtosiphon pisum</i> infestation. <i>Phytochemistry</i> , 2013 , 93, 49-62	4	76
81	Effect of a short-term hypoxic treatment followed by re-aeration on free radicals level and antioxidative enzymes in lupine roots. <i>Plant Physiology and Biochemistry</i> , 2004 , 42, 233-40	5.4	44
80	Fusarium oxysporum-induced oxidative stress and antioxidative defenses of yellow lupine embryo axes with different sugar levels. <i>Journal of Plant Physiology</i> , 2008 , 165, 262-77	3.6	38
79	Hybrid Core-Shell Nanocomposites Based on Silicon Carbide Nanoparticles Functionalized by Conducting Polyaniline: Electron Paramagnetic Resonance Investigations. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11544-11551	3.8	36
78	Magnetization enhancement in magnetite nanoparticles capped with alginic acid. <i>Composites Part B: Engineering</i> , 2014 , 64, 147-154	10	35
77	Complex of rutin with β -cyclodextrin as potential delivery system. <i>PLoS ONE</i> , 2015 , 10, e0120858	3.7	34
76	Improved electrochemical performance of LiMn ₂ O ₄ cathode material by Ce doping. <i>Electrochimica Acta</i> , 2018 , 276, 37-46	6.7	30
75	New aspects of the low-concentrated aniline polymerization in the solution and in SiC nanocrystals dispersion. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 2174-80	3.4	28
74	Metabolic and ultrastructural responses of lupine embryo axes to sugar starvation. <i>Journal of Plant Physiology</i> , 2003 , 160, 311-9	3.6	28
73	Response of embryo axes of germinating seeds of yellow lupine to <i>Fusarium oxysporum</i> . <i>Plant Physiology and Biochemistry</i> , 2004 , 42, 493-9	5.4	25
72	Defense strategies of pea embryo axes with different levels of sucrose to <i>Fusarium oxysporum</i> and <i>Ascochyta pisi</i> . <i>Physiological and Molecular Plant Pathology</i> , 2008 , 72, 167-178	2.6	23
71	Structural, dielectric, thermal and electron magnetic resonance studies of magnetic porous glasses filled with ferroelectrics. <i>Composites Part B: Engineering</i> , 2014 , 64, 16-23	10	22
70	Cross-talk interactions of exogenous nitric oxide and sucrose modulates phenylpropanoid metabolism in yellow lupine embryo axes infected with <i>Fusarium oxysporum</i> . <i>Plant Science</i> , 2013 , 211, 102-21	5.3	21
69	Effects of endogenous signals and <i>Fusarium oxysporum</i> on the mechanism regulating genistein synthesis and accumulation in yellow lupine and their impact on plant cell cytoskeleton. <i>Molecules</i> , 2014 , 19, 13392-421	4.8	20
68	Application of spectroscopic methods for identification (FT-IR, Raman spectroscopy) and determination (UV, EPR) of quercetin-3-O-rutinoside. Experimental and DFT based approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 140, 132-9	4.4	19
67	Re-aeration-induced oxidative stress and antioxidative defenses in hypoxically pretreated lupine roots. <i>Journal of Plant Physiology</i> , 2004 , 161, 415-22	3.6	19

66	EPR spectroscopy and optical microscopy study of ferroic states in pyrochlore. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 9309-9316	1.8	18
65	Formulation and characterization of EGCG for the treatment of superficial bladder cancer. <i>International Journal of Molecular Medicine</i> , 2017 , 40, 329-336	4.4	17
64	The Dynamics of the Defense Strategy of Pea Induced by Exogenous Nitric Oxide in Response to Aphid Infestation. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	16
63	Pb-induced avoidance-like chloroplast movements in fronds of <i>Lemna trisulca</i> L. <i>PLoS ONE</i> , 2015 , 10, e0116757	3.7	16
62	Supramolecular Complexes of Graphene Oxide with Porphyrins: An Interplay between Electronic and Magnetic Properties. <i>Molecules</i> , 2019 , 24,	4.8	16
61	Deoxynivalenol and oxidative stress indicators in winter wheat inoculated with <i>Fusarium graminearum</i> . <i>Toxins</i> , 2014 , 6, 575-91	4.9	15
60	Absorption and emission properties of the corrolefullerene dyad. <i>Synthetic Metals</i> , 2013 , 166, 70-76	3.6	14
59	New meso-substituted corroles possessing pentafluorophenyl groups--synthesis and spectroscopic characterization. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7411-23	3.6	12
58	Low temperature short-range ordering caused by Mn ²⁺ doping of RbMn(SO ₄) ₂ . <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 225901	1.8	12
57	Two charge states of Gd-impurities in the PbTe : Gd crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 1999 , 191, 207-210	2.8	12
56	The mobilization of defence mechanisms in the early stages of pea seed germination against <i>Ascochyta pisi</i> . <i>Protoplasma</i> , 2013 , 250, 63-75	3.4	11
55	Multiferroic BiFeO ₃ nanoparticles studied by electron spin resonance, X-ray diffraction and transmission electron microscopy methods. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 3246-51	3.3	11
54	Ability of lupine seeds to germinate and to tolerate desiccation as related to changes in free radical level and antioxidants in freshly harvested seeds. <i>Plant Physiology and Biochemistry</i> , 2009 , 47, 56-62	5.4	11
53	The anisotropy and temperature dependence of g-factor in graphite. <i>Solid State Communications</i> , 2000 , 115, 489-491	1.6	11
52	Oxidative stress links response to lead and <i>Acyrtosiphon pisum</i> in <i>Pisum sativum</i> L. <i>Journal of Plant Physiology</i> , 2019 , 240, 152996	3.6	10
51	Electron paramagnetic resonance of 6S ground-state ions in sodium ammonium sulphate dihydrate single crystal: I. The crystal doped with Mn ²⁺ . <i>Physica B: Condensed Matter</i> , 2001 , 299, 70-76	2.8	10
50	Radiolytic studies of cefozopran hydrochloride in the solid state. <i>Electronic Journal of Biotechnology</i> , 2017 , 25, 28-32	3.1	9
49	Permeable domains of segmented polyurethanes studied with paramagnetic spin probe. <i>Polymer</i> , 2004 , 45, 791-798	3.9	9

48	Temperature dependence of molecular motions in the polyurethane-based membranes studied with paramagnetic spin probe. <i>Polymer</i> , 2005 , 46, 2461-2471	3.9	9
47	Relaxor, glassy and ferroic states in Cd ₂ Nb ₂ O ₇ pyrochlore. <i>Ferroelectrics</i> , 2000 , 240, 1531-1538	0.6	9
46	Electron paramagnetic resonance and dielectric studies of (CH ₃) ₂ NH ₂ Al(SO ₄) ₂ ·H ₂ O (DMAAS) crystal doped with Cu ²⁺ ion. <i>Journal of Physics and Chemistry of Solids</i> , 1999 , 60, 1669-1673	3.9	9
45	Defense responses of Thuja orientalis to infestation of anholocyclic species aphid Cinara tujafilina. <i>Journal of Plant Physiology</i> , 2019 , 232, 160-170	3.6	9
44	Ferromagnetic resonance in Mn ₅ Ge ₃ epitaxial films with weak stripe domain structure. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 125001	3	8
43	The radiolytic studies of cefpirome sulfate in the solid state. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016 , 118, 410-416	3.5	8
42	Radiostability of cefoselis sulfate in the solid state. <i>X-Ray Spectrometry</i> , 2015 , 44, 344-350	0.9	8
41	Photoelectrochemical cells based on LB films of fullerene- <i>thiophene</i> derived dyads. <i>Synthetic Metals</i> , 2011 , 161, 1640-1645	3.6	8
40	Crystal structure and phase transitions in the new crystals of [(CH ₃) ₂ NH ₂] ₂ CuCl ₄ [(CH ₃) ₂ NH ₂]Cl. <i>Crystallography Reports</i> , 2004 , 49, 86-93	0.6	8
39	The mechanism of the phase transition in (CH ₃) ₂ NH ₂ Al(SO ₄) ₂ ·H ₂ O studied by EPR of Cr ³⁺ . <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 1567-1574	1.8	8
38	A Comparison of Selected Biochemical and Physical Characteristics and Yielding of Fruits in Apple Cultivars (<i>Malus domestica</i> Borkh.). <i>Agronomy</i> , 2020 , 10, 458	3.6	7
37	Ferromagnetic resonance and resonance modes in kagome lattices: From an open to a closed kagome structure. <i>Physical Review B</i> , 2016 , 93,	3.3	7
36	The EPR evidence of local hydrogen bond distortion evoked by ions in crystals. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, L373-L376	1.8	7
35	Radiation sterilization of anthracycline antibiotics in solid state. <i>Scientific World Journal, The</i> , 2013 , 2013, 258758	2.2	6
34	Influence of Mn ²⁺ doping level on conductivity of (NH ₄) ₃ H(SO ₄) ₂ superprotonic conductor. <i>Solid State Ionics</i> , 2008 , 179, 1974-1979	3.3	6
33	Jahn-Teller glass formation in lithium ammonium sulfate monocrystals studied by means of the electron paramagnetic resonance of Mn ²⁺ and Cu ²⁺ ions. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 12529-12536	1.8	6
32	Brachycorynella asparagi (Mordv.) Induced-Oxidative Stress and Antioxidative Defenses of Asparagus officinalis L. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	6
31	The Radiostability of Meropenem Trihydrate in Solid State. <i>Molecules</i> , 2018 , 23,	4.8	6

30	Radiodegradation of nadolol in the solid state and identification of its radiolysis products by UHPLCMS method. <i>Chemical Papers</i> , 2018 , 72, 349-357	1.9	5
29	EPR Study of Cu ²⁺ Doped Fast-Proton Conductor K ₃ H(SO ₄) ₂ in the Temperature Range 100-450 K. <i>Acta Physica Polonica A</i> , 2003 , 104, 549-558	0.6	5
28	EPR Study of VO ₂ +Center in Fast Proton Conductor K ₃ H(SO ₄) ₂ . <i>Acta Physica Polonica A</i> , 2005 , 108, 127-135	0.6	5
27	Proton dynamics in Rb ₃ H(SO ₄) ₂ doped with Mn ²⁺ studied by EPR and impedance spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 205401	1.8	4
26	A study of the x-irradiated crystal by EPR in the 80 - 415 K temperature range. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 4813-4821	1.8	4
25	Two paramagnetic iron states at the Verwey phase transition in magnetite. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 301, 88-93	2.8	4
24	Pretransition Phenomena in Fast-Proton Conductors. <i>Acta Physica Polonica A</i> , 2005 , 108, 261-270	0.6	4
23	Investigations of Phase Transitions in (NH ₄) ₃ H(SO ₄) ₂ Crystal by Means of Mn ²⁺ EPR Spectra. <i>Acta Physica Polonica A</i> , 1996 , 90, 1185-1192	0.6	4
22	High temperature phase transition and multiphase state formation in K ₃ H(SO ₄) ₂ superprotonic conductor. <i>Solid State Ionics</i> , 2017 , 301, 152-155	3.3	3
21	The Radiation Sterilization of Ertapenem Sodium in the Solid State. <i>Molecules</i> , 2019 , 24,	4.8	3
20	EPR evidence of local lattice mode in K ₃ H(SO ₄) ₂ and Rb ₃ H(SO ₄) ₂ fast-proton conductors. <i>Solid State Communications</i> , 2008 , 146, 365-367	1.6	3
19	Electron paramagnetic resonance investigation of K ₃ H(SO ₄) ₂ proton conductor doped with Cr ⁵⁺ ion. <i>Journal of Physics and Chemistry of Solids</i> , 2003 , 64, 229-235	3.9	3
18	Anisotropy Distribution in NiFe/Au/Co/Au Multilayers. <i>Acta Physica Polonica A</i> , 2009 , 115, 315-318	0.6	3
17	Tunable Dielectric Switching of (Quinuclidinium)[MnCl ₄] Hybrid Compounds. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16810-16818	3.8	3
16	Increased proapoptotic activity of electron beam irradiated doxorubicin and epirubicin in multidrug-resistant human leukemic cells. <i>Chemico-Biological Interactions</i> , 2016 , 258, 69-78	5	2
15	Dielectric properties of fine-grained triglycine sulphate (TGS). <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 217-219	3.9	2
14	EPR Testing of [(CH ₃) ₂ NH ₂] ⁺ Dynamics in (CH ₃) ₂ NH ₂ Al(SO ₄) ₂ · 6 H ₂ O Crystals. <i>Physica Status Solidi A</i> , 1997 , 160, R1-R2		2
13	Electron assisted charge transfer in superprotonic conductor K ₃ H(SO ₄) ₂ . <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 4664-4667	3	2

12	The role of ammonia molecules in $[\text{Cu}(\text{NH}_3)_5](\text{ClO}_4)_2$ structure in the crystal field averaging in Cu(II) EPR powder spectra. <i>Journal of Molecular Structure</i> , 2003 , 655, 1-6	3.4	2
11	Nonlinear effects in fast-proton conductors studied by EPR and bulk methods. <i>Applied Magnetic Resonance</i> , 2005 , 28, 115-122	0.8	2
10	Electron Paramagnetic Resonance Study of the $[(\text{CH}_3)_2\text{NH}_2]_5\text{Cd}_3\text{Cl}_{11}$ Monocrystal Doped with Cu ²⁺ ion. <i>Acta Physica Polonica A</i> , 2002 , 101, 893-899	0.6	1
9	Temperature Dependence of Tensor Anisotropy in (tm-p-PD):Chloranil Charge Transfer Complex Powders. <i>Acta Physica Polonica A</i> , 2005 , 108, 317-321	0.6	1
8	Radiation sterilization as safe and effective way to obtain sterile biapenem. <i>Radiation Physics and Chemistry</i> , 2021 , 182, 109363	2.5	1
7	Optical properties of RAS $(\text{NH}_3)_2\text{-NH}_2\text{-5Cl-Py}(\text{TCNQ})(\text{CH}_3\text{CN})$ solvate. <i>Journal of Molecular Structure</i> , 2020 , 1201, 127121	3.4	1
6	Resonant Raman scattering and ESR study of ET salts with rhenium-containing anions. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 238-244	2.3	1
5	Scheelite-Type Wide-Bandgap ABO ₄ Compounds (A = Ca, Sr, and Ba; B = Mo and W) as Potential Photocatalysts for Water Treatment. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 25497-25513	3.8	0
4	Profile of Semiquinone Radicals, Phytohormones and Sugars in Pistacia vera L. cv. Kirmizi Development. <i>Agronomy</i> , 2021 , 11, 2115	3.6	0
3	Magnetic Properties of Epitaxial Fe/(Ga,Mn)As Hybrids. <i>Acta Physica Polonica A</i> , 2013 , 124, 873-876	0.6	
2	VO ₂ ⁺ EPR studies of SO ₂ ⁻⁴ ions and H ₂ O molecules motions in Cs ₅ H ₃ (SO ₄) ₄ · 4H ₂ O. <i>Ferroelectrics</i> , 1998 , 210, 1-12	0.6	
1	Microwave X-Band Resonances in Doped Cd ₂ Nb ₂ O ₇ Monocrystals. <i>Acta Physica Polonica A</i> , 2017 , 132, 7-11	0.6	