

Waldemar Bednarski

List of Publications by Year in descending order

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86
papers

1,280
citations

331259

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433756

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86
docs citations

86
times ranked

1710
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 1207-1220.	1.6	98
2	Oxidative stress in pea seedling leaves in response to <i>Acyrtosiphon pisum</i> infestation. <i>Phytochemistry</i> , 2013, 93, 49-62.	1.4	89
3	Improved electrochemical performance of LiMn ₂ O ₄ cathode material by Ce doping. <i>Electrochimica Acta</i> , 2018, 276, 37-46.	2.6	53
4	Complex of Rutin with β -Cyclodextrin as Potential Delivery System. <i>PLoS ONE</i> , 2015, 10, e0120858.	1.1	50
5	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, 233-240.	2.8	48
6	<i>Fusarium oxysporum</i> -induced oxidative stress and antioxidative defenses of yellow lupine embryo axes with different sugar levels. <i>Journal of Plant Physiology</i> , 2008, 165, 262-277.	1.6	43
7	Hybrid Core-Shell Nanocomposites Based on Silicon Carbide Nanoparticles Functionalized by Conducting Polyaniline: EPR Electron Paramagnetic Resonance Investigations. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11544-11551.	1.5	39
8	Magnetization enhancement in magnetite nanoparticles capped with alginic acid. <i>Composites Part B: Engineering</i> , 2014, 64, 147-154.	5.9	39
9	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, 132-139.	2.0	33
10	Response of embryo axes of germinating seeds of yellow lupine to <i>Fusarium oxysporum</i> . <i>Plant Physiology and Biochemistry</i> , 2004, 42, 493-499.	2.8	32
11	Metabolic and ultrastructural responses of lupine embryo axes to sugar starvation. <i>Journal of Plant Physiology</i> , 2003, 160, 311-319.	1.6	31
12	Deoxynivalenol and Oxidative Stress Indicators in Winter Wheat Inoculated with <i>Fusarium graminearum</i> . <i>Toxins</i> , 2014, 6, 575-591.	1.5	31
13	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, 2174-2180.	1.2	30
14	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.	1.3	28
15	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, 13392-13421.	1.7	28
16	Re-aeration induced oxidative stress and antioxidative defenses in hypoxically pretreated lupine roots. <i>Journal of Plant Physiology</i> , 2004, 161, 415-422.	1.6	26
17	Supramolecular Complexes of Graphene Oxide with Porphyrins: An Interplay between Electronic and Magnetic Properties. <i>Molecules</i> , 2019, 24, 688.	1.7	26
18	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, 329.	1.8	25

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19	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, 102-121.	1.7	24
20	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.	5.9	23
21	Pb-Induced Avoidance-Like Chloroplast Movements in Fronds of <i>Lemna trisulca</i> L.. <i>PLoS ONE</i> , 2015, 10, e0116757.	1.1	22
22	EPR spectroscopy and optical microscopy study of ferroic states in pyrochlore. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 9309-9316.	0.7	19
23	Formulation and characterization of EGCG for the treatment of superficial bladder cancer. <i>International Journal of Molecular Medicine</i> , 2017, 40, 329-336.	1.8	19
24	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.	1.0	16
25	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.	1.6	16
26	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.	2.8	15
27	Absorption and emission properties of the corrole“fullerene dyad. <i>Synthetic Metals</i> , 2013, 166, 70-76.	2.1	15
28	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.	1.5	15
29	The anisotropy and temperature dependence of g-factor in graphite. <i>Solid State Communications</i> , 2000, 115, 489-491.	0.9	14
30	Tunable Dielectric Switching of (Quinuclidinium)[$MnCl_4$] Hybrid Compounds. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16810-16818.	1.5	13
31	Two charge states of Gd-impurities in the $PbTe:Gd$ crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 191, 207-210.	1.0	12
32	Low temperature short-range ordering caused by Mn^{2+} doping of $Rb_3H(SO_4)_2$. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 225901.	0.7	12
33	New meso-substituted corroles possessing pentafluorophenyl groups – synthesis and spectroscopic characterization. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7411-7423.	1.3	12
34	Radiolytic studies of cefozopran hydrochloride in the solid state. <i>Electronic Journal of Biotechnology</i> , 2017, 25, 28-32.	1.2	12
35	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.	1.3	12
36	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, 3246-3251.	0.9	11

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37	Defense responses of <i>Thuja orientalis</i> to infestation of anholocyclic species aphid <i>Cinara tujaefilina</i> . <i>Journal of Plant Physiology</i> , 2019, 232, 160-170.	1.6	11
38	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.	1.3	10
39	Radiation Sterilization of Anthracycline Antibiotics in Solid State. <i>Scientific World Journal</i> , The, 2013, 2013, 1-7.	0.8	10
40	Radiostability of cefoselis sulfate in the solid state. <i>X-Ray Spectrometry</i> , 2015, 44, 344-350.	0.9	10
41	<i>Brachycorynella asparagi</i> (Mordv.) Induced Oxidative Stress and Antioxidative Defenses of <i>Asparagus officinalis</i> L.. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1740.	1.8	10
42	The radiolytic studies of cefpirome sulfate in the solid state. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 118, 410-416.	1.4	10
43	The Radiostability of Meropenem Trihydrate in Solid State. <i>Molecules</i> , 2018, 23, 2738.	1.7	10
44	The mechanism of the phase transition in (CH ₃) ₂ NH ₂ Al(SO ₄) ₂ ·6H ₂ O studied by EPR of Cr ³⁺ . <i>Journal of Physics Condensed Matter</i> , 1999, 11, 1567-1574.	0.7	9
45	Electron paramagnetic resonance and dielectric studies of (CH ₃) ₂ NH ₂ Al(SO ₄) ₂ ·6H ₂ O (DMAAS) crystal doped with Cu ²⁺ ion. <i>Journal of Physics and Chemistry of Solids</i> , 1999, 60, 1669-1673.	1.9	9
46	Relaxor, glassy and ferroic states in Cd ₂ Nb ₂ O ₇ pyrochlore. <i>Ferroelectrics</i> , 2000, 240, 1531-1538.	0.3	9
47	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.	0.1	9
48	Permeable domains of segmented polyurethanes studied with paramagnetic spin probe. <i>Polymer</i> , 2004, 45, 791-798.	1.8	9
49	Temperature dependence of molecular motions in the polyurethane-based membranes studied with paramagnetic spin probe. <i>Polymer</i> , 2005, 46, 2461-2471.	1.8	9
50	Ferromagnetic resonance in Mn ₅ Ge ₃ epitaxial films with weak stripe domain structure. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 125001.	1.3	9
51	Photoelectrochemical cells based on LB films of fullerene-thiophene derived dyads. <i>Synthetic Metals</i> , 2011, 161, 1640-1645.	2.1	8
52	Ferromagnetic resonance and resonance modes in kagome lattices: From an open to a closed kagome structure. <i>Physical Review B</i> , 2016, 93, .	1.1	8
53	The EPR evidence of local hydrogen bond distortion evoked by ions in crystals. <i>Journal of Physics Condensed Matter</i> , 1998, 10, L373-L376.	0.7	7
54	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.	0.7	7

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55	Influence of Mn ²⁺ doping level on conductivity of (NH ₄) ₃ H(SO ₄) ₂ superprotonic conductor. Solid State Ionics, 2008, 179, 1974-1979.	1.3	6
56	Radiodegradation of nadolol in the solid state and identification of its radiolysis products by UHPLC-MS method. Chemical Papers, 2018, 72, 349-357.	1.0	6
57	EPR Study of Cu ²⁺ -Doped Fast-Proton Conductor K ₃ H(SO ₄) ₂ in the Temperature Range 100-450 K. Acta Physica Polonica A, 2003, 104, 549-558.	0.2	5
58	EPR Study of VO ₂ -Center in Fast Proton Conductor K ₃ H(SO ₄) ₂ . Acta Physica Polonica A, 2005, 108, 127-135.	0.2	5
59	A study of the x-irradiated crystal by EPR in the 80 - 415 K temperature range. Journal of Physics Condensed Matter, 1997, 9, 4813-4821.	0.7	4
60	Electron paramagnetic resonance investigation of K ₃ H(SO ₄) ₂ proton conductor doped with Cr ⁵⁺ ion. Journal of Physics and Chemistry of Solids, 2003, 64, 229-235.	1.9	4
61	Two paramagnetic iron states at the Verwey phase transition in magnetite. Journal of Magnetism and Magnetic Materials, 2006, 301, 88-93.	1.0	4
62	Proton dynamics in Rb ₃ H(SO ₄) ₂ doped with Mn ²⁺ studied by EPR and impedance spectroscopy. Journal of Physics Condensed Matter, 2009, 21, 205401.	0.7	4
63	High temperature phase transition and multiphase state formation in K ₃ H(SO ₄) ₂ superprotonic conductor. Solid State Ionics, 2017, 301, 152-155.	1.3	4
64	The Radiation Sterilization of Ertapenem Sodium in the Solid State. Molecules, 2019, 24, 2944.	1.7	4
65	Pretransition Phenomena in Fast-Proton Conductors. Acta Physica Polonica A, 2005, 108, 261-270.	0.2	4
66	Anisotropy Distribution in NiFe/Au/Co/Au Multilayers. Acta Physica Polonica A, 2009, 115, 315-318.	0.2	4
67	Investigations of Phase Transitions in (NH ₄) ₃ H(SO ₄) ₂ Crystal by Means of Mn ²⁺ -EPR Spectra. Acta Physica Polonica A, 1996, 90, 1185-1192.	0.2	4
68	EPR evidence of local lattice mode in K ₃ H(SO ₄) ₂ and Rb ₃ H(SO ₄) ₂ fast-proton conductors. Solid State Communications, 2008, 146, 365-367.	0.9	3
69	Increased proapoptotic activity of electron beam irradiated doxorubicin and epirubicin in multidrug-resistant human leukemic cells. Chemico-Biological Interactions, 2016, 258, 69-78.	1.7	3
70	EPR Testing of [(CH ₃) ₂ NH ₂] ⁺ Dynamics in (CH ₃) ₂ NH ₂ Al(SO ₄) ₂ · 6 H ₂ O Crystals. Physica Status Solidi A, 1997, 160, R1-R2.	1.7	2
71	The role of ammonia molecules in [Cu(NH ₃) ₅](ClO ₄) ₂ structure in the crystal field averaging in Cu(II) EPR powder spectra. Journal of Molecular Structure, 2003, 655, 1-6.	1.8	2
72	Nonlinear effects in fast-proton conductors studied by EPR and bulk methods. Applied Magnetic Resonance, 2005, 28, 115-122.	0.6	2

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73	Electron assisted charge transfer in superprotonic conductor K ₃ H(SO ₄) ₂ . Journal Physics D: Applied Physics, 2006, 39, 4664-4667.	1.3	2
74	Dielectric properties of fine-grained triglycine sulphate (TGS). Journal of Non-Crystalline Solids, 2012, 358, 217-219.	1.5	2
75	Resonant Raman scattering and ESR study of ET salts with rhenium-containing anions. Journal of Raman Spectroscopy, 2018, 49, 238-244.	1.2	2
76	Radiation sterilization as safe and effective way to obtain sterile biapenem. Radiation Physics and Chemistry, 2021, 182, 109363.	1.4	2
77	Profile of Semiquinone Radicals, Phytohormones and Sugars in Pistacia vera L. cv. Kirmizi Development. Agronomy, 2021, 11, 2115.	1.3	2
78	Optical properties of RAS (N≡CH ₃ -2-NH ₂ -5-Cl-Py)(TCNQ)(CH ₃ CN) solvate. Journal of Molecular Structure, 2020, 1201, 127121.	1.8	1
79	Electron Paramagnetic Resonance Study of the [(CH ₃) ₃ NH] ₂] ₅ Cd ₃ Cl ₁₁ Monocrystal Doped with Cu ²⁺ ion. Acta Physica Polonica A, 2002, 101, 893-899.		1
80	Temperature Dependence of Å-Tensor Anisotropy in (tm-p-PD):Chloranil Charge Transfer Complex Powders. Acta Physica Polonica A, 2005, 108, 317-321.	0.2	1
81	THE RADIOLYTIC STUDIES OF DORIPENEM MONOHYDRATE IN THE SOLID STATE. Acta Poloniae Pharmaceutica, 2018, 75, 1127-1133.	0.3	1
82	THE RADIATION STERILIZATION OF IMIPENEM AND CILASTATIN IN THE SOLID STATE. Acta Poloniae Pharmaceutica, 2019, 76, 431-438.	0.3	1
83	VO ₂ +EPR studies of SO ₄ ²⁻ ions and H ₂ O molecules motions in Cs ₅ H ₃ (SO ₄) ₄ ·H ₂ O. Ferroelectrics, 1998, 210, 1-12.	0.3	0
84	Magnetic Properties of Epitaxial Fe/(Ga,Mn)As Hybrids. Acta Physica Polonica A, 2013, 124, 873-876.	0.2	0
85	Microwave X-Band Resonances in Doped Cd ₂ Nb ₂ O ₇ Monocrystals. Acta Physica Polonica A, 2017, 132, 7-11.	0.2	0
86	THE RADIOSTABILITY OF BETAMIPRON IN THE SOLID STATE. Acta Poloniae Pharmaceutica, 2019, 76, 629-634.	0.3	0