

Marcin Molenda

List of Publications by Year in descending order

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106
papers

1,617
citations

279701

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377752

34
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all docs

108
docs citations

108
times ranked

1666
citing authors

#	ARTICLE	IF	CITATIONS
1	Reversible Cation-Mediated Anionic Redox in Defect Spinel Structure for High Power Batteries. <i>Advanced Functional Materials</i> , 2022, 32, 2108278.	7.8	3
2	Electrochemical properties of K and S doped LiMn ₂ O ₄ studied by GITT and EIS. <i>Electrochimica Acta</i> , 2021, 373, 137901.	2.6	18
3	Nitrogen-Doped Carbon Aerogels Derived from Starch Biomass with Improved Electrochemical Properties for Li-Ion Batteries. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9918.	1.8	8
4	KapitaÅ, spoÅ,eczny jako determinanta przedsiÅ™biorczoÅci etnicznej wÅrÅ³d biaÅ,oruskich imigrantÅ³w w Polsce. <i>PrzeglÅ...d Prawno-Ekonomiczny</i> , 2021, , 79-94.	0.0	1
5	Surface modification and carbon coating effect on a high-performance K and S doped LiMn ₂ O ₄ . <i>Applied Surface Science</i> , 2020, 531, 147138.	3.1	24
6	A Strategy to Optimize the Performance of Bio-Derived Carbon Aerogels by a Structuring Additive. <i>Nanomaterials</i> , 2020, 10, 1811.	1.9	3
7	Migracje zarobkowe jako sposÅ³b na pozyskanie pracownikÅ³w w latach 2009-2020. <i>PrzeglÅ...d Prawno-Ekonomiczny</i> , 2020, , 55-70.	0.0	0
8	Comparative study of Co-rich and Ce-rich oxide nanocatalysts (Co _x Ce _{1-x} O _y) for low-temperature total oxidation of methanol. <i>Catalysis Today</i> , 2019, 333, 196-207.	2.2	9
9	Electrochemical Properties and Structure Evolution of Starch-Based Carbon Nanomaterials as Li-Ion Anodes with Regard to Thermal Treatment. <i>Polymers</i> , 2019, 11, 1527.	2.0	9
10	Aqueous Binder for Nanostructured Carbon Anode Materials for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5354-A5361.	1.3	11
11	Improving the performance of sulphur doped LiMn ₂ O ₄ by carbon coating. <i>Journal of Power Sources</i> , 2019, 434, 226725.	4.0	37
12	Ions-free electrochemically synthesized in aqueous media flake-like CuO nanostructures as SERS reproducible substrates for the detection of neurotransmitters. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 215, 24-33.	2.0	11
13	The Temperature Effect on the Electrochemical Performance of Sulfur-Doped LiMn ₂ O ₄ in Li-Ion Cells. <i>Nanomaterials</i> , 2019, 9, 1722.	1.9	11
14	Bio-derived carbon nanostructures for high-performance lithium-ion batteries. <i>Carbon</i> , 2019, 145, 426-432.	5.4	27
15	Stability of Li ₂ MSiO ₄ (M = Mn, Co) in the carbon coating process. <i>Solid State Ionics</i> , 2018, 320, 221-225.	1.3	4
16	Enhancing the lithium ion diffusivity in LiMn ₂ O ₄ -ySy cathode materials through potassium doping. <i>Solid State Ionics</i> , 2018, 317, 190-193.	1.3	24
17	Integrated and Sustainable Solutions for Li-ion Energy Storage Systems. <i>Advances in Inorganic Chemistry</i> , 2018, 72, 287-321.	0.4	4
18	Leak testing of carbon-tin nanocomposites by thermal analysis methods. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 127, 47-53.	2.0	2

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19	Multifunctional Carbon Aerogels Derived by Solâ€“Gel Process of Natural Polysaccharides of Different Botanical Origin. <i>Materials</i> , 2017, 10, 1336.	1.3	31
20	Li-ion electrode nanocomposites with self-assembled conductive carbon layers. <i>Polimery</i> , 2017, 62, 532-538.	0.4	3
21	Study on Stability and Electrochemical Properties of Nano-LiMn _{1.9} Ni _{0.1} O _{3.99} S _{0.01} -Based Li-Ion Batteries with Liquid Electrolyte Containing LiPF ₆ . <i>Journal of Nanomaterials</i> , 2016, 2016, 1-9.	1.5	1
22	Enhancement of Electrochemical Performance of LiMn ₂ O ₄ Spinel Cathode Material by Synergetic Substitution with Ni and S. <i>Materials</i> , 2016, 9, 366.	1.3	20
23	Nature of the Electrochemical Properties of Sulphur Substituted LiMn ₂ O ₄ Spinel Cathode Material Studied by Electrochemical Impedance Spectroscopy. <i>Materials</i> , 2016, 9, 696.	1.3	10
24	An influence of carbon matrix origin on electrochemical behaviour of carbon-tin anode nanocomposites. <i>Electrochimica Acta</i> , 2016, 209, 7-16.	2.6	7
25	Parallel migration of potassium and oxygen ions in hexagonal tungsten bronze â€“ Bulk diffusion, surface segregation and desorption. <i>Solid State Ionics</i> , 2016, 297, 1-6.	1.3	11
26	Effect of electrolyte composition on thermal stability and electrochemical performance of LiMn ₂ O ₄ S _y cathodes for Li-ion batteries. <i>Materials Technology</i> , 2016, 31, 614-622.	1.5	7
27	Preliminary study of structural changes in Li ₂ MnSiO ₄ cathode material during electrochemical reaction. <i>Functional Materials Letters</i> , 2016, 09, 1641003.	0.7	3
28	Enhancement of electrochemical performance of LiFePO ₄ nanoparticles by direct nanocoating with conductive carbon layers. <i>Functional Materials Letters</i> , 2016, 09, 1641007.	0.7	3
29	Why Is Li ₂ MnSiO ₄ Unstable in Li-Ion Battery Cell? Structural Studies at Different Stages of Electrochemical Reaction. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
30	Structural and electrochemical characterization of sulphur-doped lithium manganese spinel cathode materials for lithium ion batteries. <i>Solid State Ionics</i> , 2015, 272, 127-132.	1.3	18
31	Study of quantitative interactions of potato and corn starch granules with ions in diluted solutions of heavy metal salts. <i>Carbohydrate Polymers</i> , 2015, 134, 102-109.	5.1	27
32	Electrochemical Performance of Sn/SnO ₂ Nanoparticles Encapsulated in Carbon Matrix Derived from Plant Polysaccharides. <i>ECS Transactions</i> , 2015, 64, 165-171.	0.3	9
33	A Pilot Study of the Novel J-PET Plastic Scintillator with 2-(4-styrylphenyl)benzoxazole as a Wavelength Shifter. <i>Acta Physica Polonica A</i> , 2015, 127, 1487-1490.	0.2	11
34	Ground to conduct: mechanochemical synthesis of a metalâ€“organic framework with high proton conductivity. <i>Chemical Communications</i> , 2015, 51, 7637-7640.	2.2	47
35	Ceria based novel nanocomposites catalysts Mn _x Ce _{1-x} O ₂ /Al ₂ O ₃ for low-temperature combustion of methanol. <i>Catalysis Today</i> , 2015, 257, 104-110.	2.2	10
36	A Novel Concept for the Synthesis of Nanometric LiFePO ₄ by Co-precipitation Method in an Anhydrous Environment. <i>Procedia Engineering</i> , 2014, 98, 36-41.	1.2	5

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37	Functional Starch Based Carbon Aerogels for Energy Applications. <i>Procedia Engineering</i> , 2014, 98, 14-19.	1.2	34
38	Sol-gel synthesis, structural and electrical properties of Li ₂ CoSiO ₄ cathode material. <i>Functional Materials Letters</i> , 2014, 07, 1440001.	0.7	4
39	A novel method based solely on field programmable gate array (FPGA) units enabling measurement of time and charge of analog signals in positron emission tomography (PET). <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 41-45.	1.0	31
40	3D PET image reconstruction based on the maximum likelihood estimation method (MLEM) algorithm. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 1-7.	1.0	13
41	Computing support for advanced medical data analysis and imaging. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 53-58.	1.0	3
42	Simulations of $\hat{1}^3$ quanta scattering in a single module of the J-PET detector. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 71-77.	1.0	5
43	Optimization of Sulphur Content in LiMn ₂ O ₄ -ySy Spinel as Cathode Materials for Lithium-ion Batteries. <i>Procedia Engineering</i> , 2014, 98, 20-27.	1.2	12
44	Morphology and Electrical Conductivity of Carbon Nanocoatings Prepared from Pyrolysed Polymers. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7.	1.5	7
45	Trigger-less and reconfigurable data acquisition system for positron emission tomography. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 37-40.	1.0	20
46	Determination of the map of efficiency of the Jagiellonian Positron Emission Tomograph (J-PET) detector with the GATE package. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 85-90.	1.0	3
47	J-PET analysis framework for the prototype TOF-PET detector. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 33-36.	1.0	7
48	A novel method for calibration and monitoring of time synchronization of TOF-PET scanners by means of cosmic rays. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 19-25.	1.0	3
49	Plastic scintillators for positron emission tomography obtained by the bulk polymerization method. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 27-31.	1.0	19
50	Database and data structure for the novel TOF-PET detector developed for the J-PET project. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 79-83.	1.0	4
51	Application of WLS strips for position determination in strip PET tomograph based on plastic scintillators. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 59-63.	1.0	5
52	Facile synthesis of C/Sn nanocomposite anode material for Li ion batteries. <i>Materials Technology</i> , 2014, 29, A88-A92.	1.5	15
53	Novel Method of Preparation of C/Sn-SnO ₂ Nanocomposite Li-ion Anode Material Derived from Plant Polysaccharides. <i>Procedia Engineering</i> , 2014, 98, 2-7.	1.2	5
54	Searching for the Best Electrolyte Composition for the C/Li ₂ MnSiO ₄ Based Battery System. <i>ECS Transactions</i> , 2014, 62, 89-96.	0.3	2

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55	Calibration of photomultipliers gain used in the J-PET detector. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 13-17.	1.0	5
56	List-mode reconstruction in 2D strip PET. <i>Bio-Algorithms and Med-Systems</i> , 2014, 10, 9-12.	1.0	2
57	Stability of C/Li ₂ MnSiO ₄ composite cathode material for Li-ion batteries towards LiPF ₆ based electrolyte. <i>Solid State Ionics</i> , 2014, 262, 98-101.	1.3	7
58	Anomaly in the electronic structure of the Na _x CoO ₂ ·y cathode as a source of its step-like discharge curve. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14845.	1.3	24
59	Structural, transport and electrochemical properties of LiNi _{0.5} ·yCu _y Mn _{1.5} O ₄ ·z spinel cathode materials. <i>Solid State Ionics</i> , 2014, 267, 27-31.	1.3	18
60	Test of a single module of the J-PET scanner based on plastic scintillators. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 764, 317-321.	0.7	109
61	Novel method for hit-position reconstruction using voltage signals in plastic scintillators and its application to Positron Emission Tomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 764, 186-192.	0.7	51
62	Electrochemical impedance spectroscopy study of C/Li ₂ MnSiO ₄ composite cathode material at different states of charge. <i>Solid State Ionics</i> , 2014, 263, 99-102.	1.3	6
63	141: A novel TOF-PET detector based on organic scintillators. <i>Radiotherapy and Oncology</i> , 2014, 110, S69-S70.	0.3	9
64	Pyrolytic carbons derived from water soluble polymers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 113, 329-334.	2.0	5
65	Nanocomposite C/Li ₂ MnSiO ₄ cathode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 244, 510-514.	4.0	34
66	Carbon nanocoatings for C/LiFePO ₄ composite cathode. <i>Solid State Ionics</i> , 2013, 251, 47-50.	1.3	16
67	Correlation of electrical properties of nanometric copper-doped ceria materials (Ce _{1-x} Cu _x O ₂ ·z) with their catalytic activity in incineration of VOCs. <i>Solid State Ionics</i> , 2013, 251, 18-22.	1.3	18
68	Application of Compressive Sensing Theory for the Reconstruction of Signals in Plastic Scintillators. <i>Acta Physica Polonica B, Proceedings Supplement</i> , 2013, 6, 1121.	0.0	3
69	System Response Kernel Calculation for List-mode Reconstruction in Strip PET Detector. <i>Acta Physica Polonica B, Proceedings Supplement</i> , 2013, 6, 1027.	0.0	3
70	C/Li ₂ MnSiO ₄ as a Composite Cathode Material for Li-Ion Batteries. <i>ECS Transactions</i> , 2012, 41, 129-137.	0.3	8
71	Nanostructured Co-Ce-O systems for catalytic decomposition of N ₂ O. <i>Catalysis Today</i> , 2012, 191, 121-124.	2.2	20
72	C/Li ₂ MnSiO ₄ Nanocomposite Cathode Material for Li-Ion Batteries. , 2012, , .		1

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73	INFLUENCE OF DEFECT STRUCTURE ON CATALYTIC ACTIVITY OF NANOMETRIC MATERIALS BASED ON CERIA-DOPED COPPER. <i>Functional Materials Letters</i> , 2011, 04, 165-169.	0.7	3
74	Application of gelcasting process in ceria membranes formation. <i>Solid State Ionics</i> , 2011, 188, 135-139.	1.3	3
75	Optimization of Cu doped ceria nanoparticles as catalysts for low-temperature methanol and ethylene total oxidation. <i>Catalysis Today</i> , 2011, 169, 112-117.	2.2	32
76	Potassium stabilization in $\hat{1}^2$ -K ₂ Fe ₂ O ₃ by Cr and Ce doping studied by field reversal method. <i>Solid State Ionics</i> , 2011, 192, 664-667.	1.3	11
77	Structural, transport and electrochemical properties of LiNi _{1-x} Co _y Mn _{0.1} O ₂ and Al, Mg and Cu-substituted LiNi _{0.65} Co _{0.25} Mn _{0.1} O ₂ oxides. <i>Solid State Ionics</i> , 2011, 192, 313-320.	1.3	24
78	DIFFUSION, SEGREGATION AND DESORPTION OF POTASSIUM FROM K ₂ Fe ₂ O ₃ FERRITE. <i>Functional Materials Letters</i> , 2011, 04, 179-182.	0.7	9
79	CARBON ELECTRODE COMPOSITES FOR L ⁺ -ION BATTERIES PREPARED FROM POLYMER PRECURSORS. <i>Functional Materials Letters</i> , 2011, 04, 129-134.	0.7	9
80	SYNTHESIS AND PROPERTIES OF Li ₂ MnSiO ₄ COMPOSITE CATHODE MATERIAL FOR SAFE L ⁺ -ION BATTERIES. <i>Functional Materials Letters</i> , 2011, 04, 135-138.	0.7	13
81	Artificial versus natural ageing of paper. Water role in degradation mechanisms. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 625-633.	1.1	15
82	Nanostructured Cu-Doped Ceria Obtained by Reverse Microemulsion Method as Catalysts for Incineration of Selected VOCs. <i>Catalysis Letters</i> , 2010, 135, 68-75.	1.4	31
83	Electrochemical properties of C/LiMn ₂ O ₄ composite cathode materials. <i>Solid State Ionics</i> , 2008, 179, 88-92.	1.3	9
84	Direct preparation of conductive carbon layer (CCL) on alumina as a model system for direct preparation of carbon coated particles of the composite Li-ion electrodes. <i>Solid State Ionics</i> , 2008, 179, 197-201.	1.3	20
85	Uptake of Cu ²⁺ by Starch Granules As Affected by Counterions. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 4054-4059.	2.4	11
86	Illumination of Cellulose with Linearly Polarized Visible Light. <i>Macromolecular Symposia</i> , 2008, 272, 156-160.	0.4	2
87	Submillimetre and millimetre wave ESR study of manganese spinel compound LiMn ₂ O ₄ . <i>Journal of Physics Condensed Matter</i> , 2007, 19, 145266.	0.7	5
88	Studies of selected synthesis procedures of the conducting LiFePO ₄ -based composite cathode materials for Li-ion batteries. <i>Journal of Power Sources</i> , 2007, 173, 700-706.	4.0	57
89	Analysis of the temperature dependence of the high-frequency EMR spectra of Mn ions in the lithium-ion battery material LiMn ₂ O ₄ . <i>Research on Chemical Intermediates</i> , 2007, 33, 853-862.	1.3	1
90	Thermal decomposition of [Cd(NH ₃) ₆](NO ₃) ₂ . <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 89, 573-578.	2.0	8

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91	Dehydration of polymeric hydrogels designed for gelcasting method in ceramics. Journal of Thermal Analysis and Calorimetry, 2007, 88, 499-502.	2.0	8
92	Thermal induced changes in crystal structure and electronic states of Li-ion cathode materials based on Li ⁺ Mn ²⁺ O ²⁻ S system. Journal of Thermal Analysis and Calorimetry, 2007, 88, 189-192.	2.0	2
93	A new method of coating powdered supports with conductive carbon films. Journal of Thermal Analysis and Calorimetry, 2007, 88, 503-506.	2.0	18
94	Electrochemical and high temperature physicochemical properties of orthorhombic LiMnO ₂ . Journal of Power Sources, 2007, 173, 707-711.	4.0	41
95	An attempt to improve electrical conductivity of the pyrolysed carbon-LiMn ₂ O ₄ -yS _y (0 ≤ y ≤ 0.5) composites. Journal of Power Sources, 2007, 174, 613-618.	4.0	25
96	High field ESR measurements on the lithium-ion battery substance LiMn ₂ O ₄ . Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 2820-2823.	0.8	1
97	Influence of sulphur substitution on structural and electrical properties of lithium-manganese spinels. Journal of Physics and Chemistry of Solids, 2006, 67, 1347-1350.	1.9	19
98	Thermally Induced Changes in the Structure, Composition, and Chemical Properties of LiMn ₂ O ₄ Spinel Prepared by Sol-Gel Method. Japanese Journal of Applied Physics, 2006, 45, 5132-5137.	0.8	6
99	Synthesis and characterisation of sulphided lithium manganese spinels LiMnOS prepared by sol-gel method. Solid State Ionics, 2005, 176, 1705-1709.	1.3	22
100	Changes in local structure of lithium manganese spinels (Li:Mn=1:2) characterised by XRD, DSC, TGA, IR, and Raman spectroscopy. Journal of Physics and Chemistry of Solids, 2005, 66, 1761-1768.	1.9	44
101	Magnetization and High-Frequency EMR Measurements on the Lithium-Ion Battery Substance LiMn ₂ O ₄ . Japanese Journal of Applied Physics, 2005, 44, 7440-7444.	0.8	8
102	The effect of 3d substitutions in the manganese sublattice on the charge transport mechanism and electrochemical properties of manganese spinel. Solid State Ionics, 2004, 171, 215-227.	1.3	80
103	Electrochemical and chemical deintercalation of LiMn ₂ O ₄ . Solid State Ionics, 2003, 157, 73-79.	1.3	20
104	Synthesis, thermal and electrical properties of Li _{1-x} Mn _{2-x} O ₄ prepared by a sol-gel method. Solid State Ionics, 2003, 157, 81-87.	1.3	33
105	Stabilization of the spinel structure in Li _{1-x} Mn _{2-x} O ₄ obtained by sol-gel method. Journal of Power Sources, 2003, 119-121, 121-124.	4.0	40
106	Electronic structure and reactivity of Li _{1-x} Mn ₂ O ₄ cathode. Solid State Ionics, 2000, 135, 53-59.	1.3	26