

Aleksander Jaworski

List of Publications by Year in descending order

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40
papers

1,012
citations

394421

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all docs

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docs citations

46
times ranked

1006
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin-Supported Heterogeneous Photocatalyst for the Direct Generation of H_2 from Seawater. <i>Journal of the American Chemical Society</i> , 2022, 144, 2603-2613.	13.7	80
2	Cellulose Nanocrystals from Postconsumer Cotton and Blended Fabrics: A Study on Their Properties, Chemical Composition, and Process Efficiency. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3787-3798.	6.7	17
3	Direct Solar Energy-Mediated Synthesis of Tertiary Benzylic Alcohols Using a Metal-Free Heterogeneous Photocatalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 530-540.	6.7	25
4	Temperature-Driven Chemical Segregation in Co-Free Li-Rich-Layered Oxides and Its Influence on Electrochemical Performance. <i>Chemistry of Materials</i> , 2022, 34, 3637-3647.	6.7	8
5	Electron correlation and vibrational effects in predictions of paramagnetic NMR shifts. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 15230-15244.	2.8	3
6	Graphitic nitrogen in carbon catalysts is important for the reduction of nitrite as revealed by naturally abundant ^{15}N NMR spectroscopy. <i>Dalton Transactions</i> , 2021, 50, 6857-6866.	3.3	8
7	CeTiO ₂ N oxynitride perovskite: paramagnetic ^{14}N MAS NMR without paramagnetic shifts. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2021, 76, 275-280.	0.7	4
8	The Structure, Morphology, and Complex Permittivity of Epoxy Nanodielectrics with In Situ Synthesized Surface-Functionalized SiO ₂ . <i>Polymers</i> , 2021, 13, 1469.	4.5	6
9	Toward Sustainable Li-Ion Battery Recycling: Green Metal-Organic Framework as a Molecular Sieve for the Selective Separation of Cobalt and Nickel. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9770-9778.	6.7	22
10	Barium Titanium Oxynitride from Ammonia-Free Nitridation of Reduced BaTiO ₃ . <i>Inorganics</i> , 2021, 9, 62.	2.7	3
11	^{14}N , ^{13}C , and ^{119}Sn solid-state NMR characterization of tin(II) carbodiimide Sn(NCN). <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2021, 76, 745-750.	0.7	3
12	LignoPhot: Conversion of hydrolysis lignin into the photoactive hybrid lignin/Bi ₄ O ₅ Br ₂ /BiOBr composite for simultaneous dyes oxidation and Co ²⁺ and Ni ²⁺ recycling. <i>Chemosphere</i> , 2021, 279, 130538.	8.2	21
13	Synergetic contribution of nitrogen and fluorine species in porous carbons as metal-free and bifunctional oxygen electrocatalysts for zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120448.	20.2	64
14	Chemisorption of CO ₂ on diaminated silica as bicarbonates and different types of carbamate ammonium ion pairs. <i>Materials Advances</i> , 2021, 2, 448-454.	5.4	10
15	Local energy decomposition analysis and molecular properties of encapsulated methane in fullerene (C ₄ @C ₆₀). <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21554-21567.	2.8	19
16	Structural Properties of NdTiO _{2-x} N _{1-x} and Its Application as Photoanode. <i>Inorganic Chemistry</i> , 2021, 60, 919-929.	4.0	7
17	Probing Molecular Motions in Metal-Organic Frameworks by Three-Dimensional Electron Diffraction. <i>Journal of the American Chemical Society</i> , 2021, 143, 17947-17952.	13.7	12
18	Atomic-Level Understanding for the Enhanced Generation of Hydrogen Peroxide by the Introduction of an Aryl Amino Group in Polymeric Carbon Nitrides. <i>ACS Catalysis</i> , 2021, 11, 14087-14101.	11.2	33

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19	Exploring the Origins of Improved Photocurrent by Acidic Treatment for Quaternary Tantalum-Based Oxynitride Photoanodes on the Example of $\text{CaTaO}_{2-x}\text{N}$. <i>Journal of Physical Chemistry C</i> , 2020, 124, 152-160.	3.1	28
20	Tailored Hydrophobic/Hydrophilic Lignin Coatings on Mesoporous Silica for Sustainable Cobalt(II) Recycling. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16262-16273.	6.7	18
21	Trapping of different stages of BaTiO_3 reduction with LiH. <i>RSC Advances</i> , 2020, 10, 35356-35365.	3.6	5
22	Electrochemical Denitrification and Oxidative Dehydrogenation of Ethylbenzene over N-doped Mesoporous Carbon: Atomic Level Understanding of Catalytic Activity by ^{15}N NMR Spectroscopy. <i>Chemistry of Materials</i> , 2020, 32, 7263-7273.	6.7	28
23	Glycine-functionalized silica as sorbent for cobalt(II) and nickel(II) recovery. <i>Applied Surface Science</i> , 2020, 530, 147299.	6.1	22
24	Chitosan Deposited onto Fumed Silica Surface as Sustainable Hybrid Biosorbent for Acid Orange 8 Dye Capture: Effect of Temperature in Adsorption Equilibrium and Kinetics. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15312-15323.	3.1	25
25	Resolving Dirac electrons with broadband high-resolution NMR. <i>Nature Communications</i> , 2020, 11, 1285.	12.8	13
26	The role of oxygen vacancies on the vibrational motions of hydride ions in the oxyhydride of barium titanate. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6360-6371.	10.3	9
27	Separation of quadrupolar and paramagnetic shift interactions with TOPâ€™MAS/MQMAS in solidâ€™state lighting phosphors. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 1055-1070.	1.9	6
28	Cellulose from the green macroalgae <i>Ulva lactuca</i> : isolation, characterization, optotracing, and production of cellulose nanofibrils. <i>Cellulose</i> , 2020, 27, 3707-3725.	4.9	91
29	Nature of Chemisorbed CO_2 in Zeolite A. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21497-21503.	3.1	34
30	Mysterious SiB_3 : Identifying the Relation between $\hat{1}\pm$ - and $\hat{1}^2$ - SiB_3 . <i>ACS Omega</i> , 2019, 4, 18741-18759.	3.5	9
31	Selective Control of Composition in Prussian White for Enhanced Material Properties. <i>Chemistry of Materials</i> , 2019, 31, 7203-7211.	6.7	86
32	Observing an Antisense Drug Complex in Intact Human Cells by inâ€™Cell NMR Spectroscopy. <i>ChemBioChem</i> , 2019, 20, 2474-2478.	2.6	38
33	Artefact-free broadband 2D NMR for separation of quadrupolar and paramagnetic shift interactions. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 101, 51-62.	2.3	8
34	Dynamics of Hydride Ions in Metal Hydride-Reduced BaTiO_3 Samples Investigated with Quasielastic Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2019-2030.	3.1	19
35	Synthesis and Physical Properties of the Oxofluoride $\text{Cu}_2(\text{SeO}_3)\text{F}_2$. <i>Inorganic Chemistry</i> , 2018, 57, 4640-4648.	4.0	11
36	Hydride Reduction of BaTiO_3 â€™ Oxyhydride Versus O Vacancy Formation. <i>ACS Omega</i> , 2018, 3, 11426-11438.	3.5	27

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37	Scandium and Yttrium Environments in Aluminosilicate Glasses Unveiled by ⁴⁵ Sc/ ⁸⁹ Y NMR Spectroscopy and DFT Calculations: What Structural Factors Dictate the Chemical Shifts?. Journal of Physical Chemistry C, 2017, 121, 18815-18829.	3.1	32
38	Direct ¹⁷ O NMR experimental evidence for Al ^{IV} -NBO bonds in Si-rich and highly polymerized aluminosilicate glasses. Physical Chemistry Chemical Physics, 2015, 17, 18269-18272.	2.8	39
39	Local structures and Al/Si ordering in lanthanum aluminosilicate glasses explored by advanced ²⁷ Al NMR experiments and molecular dynamics simulations. Physical Chemistry Chemical Physics, 2012, 14, 15866.	2.8	64
40	Composition-Property-Structure Correlations of Scandium Aluminosilicate Glasses Revealed by Multinuclear ⁴⁵ Sc, ²⁷ Al, and ²⁹ Si Solid-State NMR. Journal of the American Ceramic Society, 2012, 95, 2545-2553.	3.8	55