

# Adam Slabon

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

1,563  
citations

279487

23  
h-index

360668

35  
g-index

95  
all docs

95  
docs citations

95  
times ranked

1642  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Coordination Cage with an Adaptable Cavity Size. <i>Journal of the American Chemical Society</i> , 2010, 132, 14004-14005.	6.6	184
2	Sustainable Li-ion Batteries: Chemistry and Recycling. <i>Advanced Energy Materials</i> , 2021, 11, 2003456.	10.2	157
3	Lignin-Supported Heterogeneous Photocatalyst for the Direct Generation of $H_2O_2$ from Seawater. <i>Journal of the American Chemical Society</i> , 2022, 144, 2603-2613.	6.6	80
4	Lignin-Inorganic Interfaces: Chemistry and Applications from Adsorbents to Catalysts and Energy Storage Materials. <i>ChemSusChem</i> , 2020, 13, 4344-4355.	3.6	68
5	Carbodiimides as energy materials: which directions for a reasonable future?. <i>Dalton Transactions</i> , 2018, 47, 10827-10832.	1.6	51
6	Enhanced Photoelectrochemical Water Oxidation Efficiency of $CuWO_4$ Photoanodes by Surface Modification with $Ag_2NCN$ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 26265-26274.	1.5	36
7	An $MnNCN$ -Derived Electrocatalyst for $CuWO_4$ Photoanodes. <i>Langmuir</i> , 2018, 34, 3845-3852.	1.6	36
8	Quaternary Core-Shell Oxynitride Nanowire Photoanode Containing a Hole-Extraction Gradient for Photoelectrochemical Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 19077-19086.	4.0	35
9	Unravelling the Hydration Barrier of Lignin Oleate Nanoparticles for Acid- and Base-Catalyzed Functionalization in Dispersion State. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20897-20905.	7.2	34
10	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.	5.5	33
11	Augmenting the Photocurrent of $CuWO_4$ Photoanodes by Heat Treatment in the Nitrogen Atmosphere. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19281-19288.	1.5	32
12	Rapid synthesis of transition metal dichalcogenide few-layer thin crystals by the microwave-induced-plasma assisted method. <i>Journal of Crystal Growth</i> , 2016, 450, 140-147.	0.7	29
13	Nanostructured core-shell metal borides oxides as highly efficient electrocatalysts for photoelectrochemical water oxidation. <i>Nanoscale</i> , 2020, 12, 3121-3128.	2.8	29
14	<i>CelluPhot</i> : Hybrid Cellulose-Bismuth Oxybromide Membrane for Pollutant Removal. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42891-42901.	4.0	29
15	Band Gap Tuning in Bismuth Oxide Carbodiimide $Bi_2O_2NCN$ . <i>Inorganic Chemistry</i> , 2019, 58, 6467-6473.	1.9	28
16	Exploring the Origins of Improved Photocurrent by Acidic Treatment for Quaternary Tantalum-Based Oxynitride Photoanodes on the Example of $CaTaO_2N$ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 152-160.	1.5	28
17	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.	3.2	28
18	Membrane-Filtered Kraft Lignin-Silica Hybrids as Bio-Based Sorbents for Cobalt(II) Ion Recycling. <i>ACS Omega</i> , 2020, 5, 10847-10856.	1.6	27

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19	SrTaO <sub>2</sub> N Nanowire Photoanode Modified with a Ferrihydrite Hole-Storage Layer for Photoelectrochemical Water Oxidation. ACS Applied Nano Materials, 2018, 1, 869-876.	2.4	25
20	Chitosan Deposited onto Fumed Silica Surface as Sustainable Hybrid Biosorbent for Acid Orange 8 Dye Capture: Effect of Temperature in Adsorption Equilibrium and Kinetics. Journal of Physical Chemistry C, 2020, 124, 15312-15323.	1.5	25
21	Direct Solar Energy-Mediated Synthesis of Tertiary Benzylic Alcohols Using a Metal-Free Heterogeneous Photocatalyst. ACS Sustainable Chemistry and Engineering, 2022, 10, 530-540.	3.2	25
22	Structural evolution of CrN nanocube electrocatalysts during nitrogen reduction reaction. Nanoscale, 2020, 12, 19276-19283.	2.8	24
23	Electrochemical oxidation of methanol and ethanol on two-dimensional self-assembled palladium nanocrystal arrays. Thin Solid Films, 2016, 615, 221-225.	0.8	23
24	Enhancing Photoelectrochemical Water Oxidation Efficiency of WO <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> Heterojunction Photoanodes by Surface Functionalization with CoPd Nanocrystals. European Journal of Inorganic Chemistry, 2017, 2017, 4267-4274.	1.0	23
25	Glycine-functionalized silica as sorbent for cobalt(II) and nickel(II) recovery. Applied Surface Science, 2020, 530, 147299.	3.1	22
26	Toward Sustainable Li-Ion Battery Recycling: Green Metal-Organic Framework as a Molecular Sieve for the Selective Separation of Cobalt and Nickel. ACS Sustainable Chemistry and Engineering, 2021, 9, 9770-9778.	3.2	22
27	LignoPhot: Conversion of hydrolysis lignin into the photoactive hybrid lignin/Bi <sub>4</sub> O <sub>5</sub> Br <sub>2</sub> /BiOBr composite for simultaneous dyes oxidation and Co <sup>2+</sup> and Ni <sup>2+</sup> recycling. Chemosphere, 2021, 279, 130538.	4.2	21
28	Bile acids adsorption by chitoan-fumed silica enterosorbent. Colloids and Interface Science Communications, 2019, 32, 100194.	2.0	18
29	Tailored Hydrophobic/Hydrophilic Lignin Coatings on Mesoporous Silica for Sustainable Cobalt(II) Recycling. ACS Sustainable Chemistry and Engineering, 2020, 8, 16262-16273.	3.2	18
30	Converting cellulose nanocrystals into photocatalysts by functionalisation with titanium dioxide nanorods and gold nanocrystals. RSC Advances, 2020, 10, 37374-37381.	1.7	17
31	Semi-transparent quaternary oxynitride photoanodes on GaN underlayers. Chemical Communications, 2020, 56, 13193-13196.	2.2	16
32	Metathetic synthesis of lead cyanamide as a p-type semiconductor. Dalton Transactions, 2020, 49, 14061-14067.	1.6	16
33	Surface modified TiO <sub>2</sub> /reduced graphite oxide nanocomposite anodes for lithium ion batteries. Journal of Solid State Electrochemistry, 2020, 24, 1085-1093.	1.2	16
34	Increased photocurrent of CuWO <sub>4</sub> photoanodes by modification with the oxide carbodiimide Sn <sub>2</sub> O(NCN). Dalton Transactions, 2020, 49, 3450-3456.	1.6	14
35	Dissecting complex nanoparticle heterostructures via multimodal data fusion with aberration-corrected STEM spectroscopy. Ultramicroscopy, 2020, 219, 113116.	0.8	13
36	SnCN <sub>2</sub> : A Carbodiimide with an Innovative Approach for Energy Storage Systems and Phosphors in Modern LED Technology. ChemElectroChem, 2020, 7, 4550-4561.	1.7	13

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37	Nucleotide Interaction with a Chitosan Layer on a Silica Surface: Establishing the Mechanism at the Molecular Level. <i>Langmuir</i> , 2021, 37, 1511-1520.	1.6	12
38	Spin-Glass Behavior and Electronic Structure of $\text{LiEu}_2\text{Si}_3$ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 1158-1164.	1.5	11
39	Exploring the Borders of the Zintl-Klemm Concept: On the Isopunctual Phases $\text{Eu}_{5+x}\text{Mg}_{18-x}\text{Ge}_{13}$ ( $x=0.1$ ) and $\text{Eu}_8\text{Mg}_{16}\text{Ge}_{12}$ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 2020-2028.	0.6	11
40	Fabrication of hierarchically ordered porous scheelite-related monoclinic $\text{BiVO}_4$ nanotubes by electrochemical deposition. <i>Functional Materials Letters</i> , 2016, 09, 1650036.	0.7	11
41	Curcuminoid-Tailored Interfacial Free Energy of Hydrophobic Fibers for Enhanced Biological Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 24493-24504.	4.0	11
42	Closing the yellow gap with Eu- and Tb-doped GaN: one luminescent host resulting in three colours. <i>Scientific Reports</i> , 2022, 12, 2503.	1.6	11
43	Field-Induced Inversion of the Magnetoresistive Effect in the Zintl Phase $\text{Eu}_{5+x}\text{Mg}_{18-x}\text{Si}_{13}$ ( $x=2.2$ ). <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2122-2125.	7.2	10
44	Fabrication of Nanoporous Nickel Coatings by Template-Assisted Electrodeposition. <i>ChemElectroChem</i> , 2014, 1, 536-538.	1.7	10
45	Complex physical properties of $\text{EuMgSi}$ – a complementary study by neutron powder diffraction and $^{151}\text{Eu}$ Mössbauer spectroscopy. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7203-7215.	2.7	10
46	Elucidation of the Active Sites for Monodisperse FePt and Pt Nanocrystal Catalysts for $\text{p-WS}_2$ Photocathodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11877-11885.	1.5	10
47	Soot Nanoparticles Generated from Tribofilm Decomposition under Real Engine Conditions for Identifying Lubricant Hazards. <i>ACS Applied Nano Materials</i> , 2021, 4, 220-228.	2.4	10
48	On the product selectivity in the electrochemical reductive cleavage of 2-phenoxyacetophenone, a lignin model compound. <i>Green Chemistry Letters and Reviews</i> , 2022, 15, 153-161.	2.1	10
49	Mössbauerite as Iron-Only Layered Oxyhydroxide Catalyst for $\text{WO}_3$ Photoanodes. <i>Inorganic Chemistry</i> , 2019, 58, 9655-9662.	1.9	9
50	Combining Electrocatalysts and Biobased Adsorbents for Sustainable Denitrification. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3658-3667.	3.2	9
51	Copper Silicides with the Highest Lithium Content: $\text{Li}_7\text{CuSi}_2$ Containing the 16-Electron Group $[\text{CuSi}_2]^{\supset 7\text{e}^-}$ and $\text{Li}_{7.3}\text{CuSi}_3$ with Heterographene Nets $\{\{\{\text{hfill } 2\text{atop hfill infity}\}\}\}[\text{CuSi}]^{\supset 3.3\text{e}^-}$ . <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11594-11596.	7.2	8
52	Sensibilization of $\text{p-NiO}$ with $\text{ZnSe/CdS}$ and $\text{CdS/ZnSe}$ quantum dots for photoelectrochemical water reduction. <i>Nanoscale</i> , 2021, 13, 869-877.	2.8	8
53	Graphitic nitrogen in carbon catalysts is important for the reduction of nitrite as revealed by naturally abundant $^{15}\text{N}$ NMR spectroscopy. <i>Dalton Transactions</i> , 2021, 50, 6857-6866.	1.6	8
54	Biocoatings and additives as promising candidates for ultralow friction systems. <i>Green Chemistry Letters and Reviews</i> , 2021, 14, 358-381.	2.1	8

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55	Synthesis, Crystal, and Electronic Structure of the New Ternary Zintl Phase $\text{Eu}_{2-x}\text{Mg}_2\text{-yGe}_3$ ( $x = 0.1$ ; $y = 1$ ) <i>Tj ETQq1</i>	1.0784314	7
56	Gold nanocrystal arrays as electrocatalysts for the oxidation of methanol and ethanol. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2016, 71, 821-825.	0.3	7
57	Tailoring the Surface Properties of $\text{Bi}_2\text{O}_2\text{NCN}$ by <i>in Situ</i> Activation for Augmented Photoelectrochemical Water Oxidation on $\text{WO}_3$ and $\text{CuWO}_4$ Heterojunction Photoanodes. <i>Inorganic Chemistry</i> , 2020, 59, 13589-13597.	1.9	7
58	NiO/Poly(4-alkylthiazole) Hybrid Interface for Promoting Spatial Charge Separation in Photoelectrochemical Water Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 29173-29180.	4.0	7
59	Nanocomposite SAC solders: the effect of adding CoPd nanoparticles on the morphology and the shear strength of the $\text{Sn}^{3.0}\text{Ag}^{0.5}\text{Cu}/\text{Cu}$ solder joints. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 4603-4607.	1.6	7
60	Structural Properties of $\text{NdTiO}_{2+x}\text{N}^{x-1}$ and Its Application as Photoanode. <i>Inorganic Chemistry</i> , 2021, 60, 919-929.	1.9	7
61	Crystal and Electronic Structure of the Lithium-Rich Silver Silicide $\text{Li}_{12}\text{Ag}_{17}\text{Si}_4$ ( $x=0.15$ ). <i>Chemistry - A European Journal</i> , 2013, 19, 16528-16531.	1.7	6
62	Evidence of a Mixed Magnetic Phase in $\text{EuMgGe}$ : A Semi-Metallic Zintl Compound with $\text{TiNiSi}$ Structure Type. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 1861-1867.	0.6	6
63	Reaction pathways on N-substituted carbon catalysts during the electrochemical reduction of nitrate to ammonia. <i>Catalysis Science and Technology</i> , 2022, 12, 3582-3593.	2.1	6
64	Trapping of different stages of $\text{BaTiO}_3$ reduction with LiH. <i>RSC Advances</i> , 2020, 10, 35356-35365.	1.7	5
65	Valorisation of used lithium-ion batteries into nanostructured catalysts for green hydrogen from boranes. <i>Materials Advances</i> , 2020, 1, 2279-2285.	2.6	4
66	$\text{CeTi}_2\text{N}$ oxynitride perovskite: paramagnetic $^{14}\text{N}$ MAS NMR without paramagnetic shifts. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2021, 76, 275-280.	0.3	4
67	Barium Titanium Oxynitride from Ammonia-Free Nitridation of Reduced $\text{BaTiO}_3$ . <i>Inorganics</i> , 2021, 9, 62.	1.2	3
68	$^{14}\text{N}$ , $^{13}\text{C}$ , and $^{119}\text{Sn}$ solid-state NMR characterization of tin(II) carbodiimide $\text{Sn}(\text{NCN})$ . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2021, 76, 745-750.	0.3	3
69	$\text{LiSr}_2\text{EuGe}_3$ : Light on the Europium Site Preferences. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23121-23128.	1.5	2
70	Shedding light on decahedral nanoparticle catalysts. <i>IUCr</i> , 2019, 6, 344-345.	1.0	2
71	Lightweight magnesium nanocomposites: electrical conductivity of liquid magnesium doped by CoPd nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 1119-1125.	1.6	1
72	<i>Festkörp̄rperchemie. Nachrichten Aus Der Chemie</i> , 2021, 69, 40-46.	0.0	0

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73	Celebrating the 60th birthday of Richard Dronskowski. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2021, 76, 535-536.	0.3	0
74	Unravelling the Hydration Barrier of Lignin Oleate Nanoparticles for Acid- and Base-Catalyzed Functionalization in Dispersion State. Angewandte Chemie, 2021, 133, 21065-21073.	1.6	0
75	Back to the Roots " Dress Chemistry in Green. , 0, , .		0
76	Front Cover: Electrochemical Depolymerization of Lignin in a Biomass-based Solvent (ChemSusChem) Tj ETQq0 0,0,rgBT /Oyerlock 10	3.6	0