

# Tom Regier

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2405155/publications.pdf>

Version: 2024-02-01

42  
papers

14,205  
citations

218677

26  
h-index

276875

41  
g-index

42  
all docs

42  
docs citations

42  
times ranked

17884  
citing authors

#	ARTICLE	IF	CITATIONS
1	Co <sub>3</sub> O <sub>4</sub> nanocrystals on graphene as a synergistic catalyst for oxygen reduction reaction. <i>Nature Materials</i> , 2011, 10, 780-786.	27.5	5,120
2	An Advanced Ni-Fe Layered Double Hydroxide Electrocatalyst for Water Oxidation. <i>Journal of the American Chemical Society</i> , 2013, 135, 8452-8455.	13.7	2,498
3	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , 2016, 352, 333-337.	12.6	1,948
4	Covalent Hybrid of Spinel Manganese-Cobalt Oxide and Graphene as Advanced Oxygen Reduction Electrocatalysts. <i>Journal of the American Chemical Society</i> , 2012, 134, 3517-3523.	13.7	1,266
5	Catalyst electro-deposition controls morphology and oxidation state for selective carbon dioxide reduction. <i>Nature Catalysis</i> , 2018, 1, 103-110.	34.4	737
6	Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. <i>Nature Chemistry</i> , 2018, 10, 149-154.	13.6	476
7	High-valence metals improve oxygen evolution reaction performance by modulating 3d metal oxidation cycle energetics. <i>Nature Catalysis</i> , 2020, 3, 985-992.	34.4	390
8	Golden single-atomic-site platinum electrocatalysts. <i>Nature Materials</i> , 2018, 17, 1033-1039.	27.5	266
9	Nitrogen K-edge XANES – an overview of reference compounds used to identify unknown organic nitrogen in environmental samples. <i>Journal of Synchrotron Radiation</i> , 2007, 14, 500-511.	2.4	194
10	Chemical interaction and imaging of single Co <sub>3</sub> O <sub>4</sub> /graphene sheets studied by scanning transmission X-ray microscopy and X-ray absorption spectroscopy. <i>Energy and Environmental Science</i> , 2013, 6, 926.	30.8	177
11	Engineering manganese oxide/nanocarbon hybrid materials for oxygen reduction electrocatalysis. <i>Nano Research</i> , 2012, 5, 718-725.	10.4	104
12	Direct Observation of Tetrahedrally Coordinated Fe(III) in Ferrihydrite. <i>Environmental Science &amp; Technology</i> , 2012, 46, 3163-3168.	10.0	84
13	Fe-N bonding in a carbon nanotube-graphene complex for oxygen reduction: an XAS study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15787.	2.8	84
14	Cobalt (II) oxide nanosheets with rich oxygen vacancies as highly efficient bifunctional catalysts for ultra-stable rechargeable Zn-air flow battery. <i>Nano Energy</i> , 2021, 79, 105409.	16.0	74
15	Further Understanding of the Electronic Interactions between N719 Sensitizer and Anatase TiO <sub>2</sub> Films: A Combined X-ray Absorption and X-ray Photoelectron Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5692-5707.	3.1	72
16	Nonstatistical Dopant Distribution of Ln <sup>3+</sup> -Doped NaGdF <sub>4</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15950-15958.	3.1	57
17	Observation of the origin of d <sup>0</sup> magnetism in ZnO nanostructures using X-ray-based microscopic and spectroscopic techniques. <i>Nanoscale</i> , 2014, 6, 9166.	5.6	57
18	Manganese-Driven Carbon Oxidation at Oxidic-Anoxic Interfaces. <i>Environmental Science &amp; Technology</i> , 2018, 52, 12349-12357.	10.0	54

#	ARTICLE	IF	CITATIONS
19	Spectroscopic understanding of ultra-high rate performance for LiMn <sub>0.75</sub> Fe <sub>0.25</sub> PO <sub>4</sub> nanorods-graphene hybrid in lithium ion battery. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9578.	2.8	48
20	Speciation and distribution of copper in a mining soil using multiple synchrotron-based bulk and microscopic techniques. <i>Environmental Science and Pollution Research</i> , 2014, 21, 2943-2954.	5.3	44
21	Soft X-ray Induced Photoreduction of Organic Cu(II) Compounds Probed by X-ray Absorption Near-Edge (XANES) Spectroscopy. <i>Analytical Chemistry</i> , 2011, 83, 7856-7862.	6.5	38
22	Revealing the charge/discharge mechanism of NaO <sub>2</sub> cells by <i>in situ</i> soft X-ray absorption spectroscopy. <i>Energy and Environmental Science</i> , 2018, 11, 2073-2077.	30.8	37
23	Transforming reed waste into a highly active metal-free catalyst for oxygen reduction reaction. <i>Nano Energy</i> , 2019, 62, 700-708.	16.0	37
24	The Origin and Dynamics of Soft X-ray-Excited Optical Luminescence of ZnO. <i>ChemPhysChem</i> , 2010, 11, 3625-3631.	2.1	34
25	Temperature resolved alteration of soil organic matter composition during laboratory heating as revealed by C and N XANES spectroscopy and Py-FIMS. <i>Thermochimica Acta</i> , 2012, 537, 36-43.	2.7	30
26	Advances in Using Soft X-Ray Spectroscopy for Measurement of Soil Biogeochemical Processes. <i>Advances in Agronomy</i> , 2015, , 1-32.	5.2	30
27	Aircraft and MiniCAST soot at the nanoscale. <i>Combustion and Flame</i> , 2019, 204, 278-289.	5.2	28
28	Cultivation Affects Soil Organic Nitrogen: Pyrolysis-Mass Spectrometry and Nitrogen K-edge XANES Spectroscopy Evidence. <i>Soil Science Society of America Journal</i> , 2009, 73, 82-92.	2.2	27
29	Time-Resolved X-ray Excited Optical Luminescence from Tris(2-phenyl bipyridine)iridium. <i>Journal of the American Chemical Society</i> , 2006, 128, 3906-3907.	13.7	26
30	The unexpected structures of core-shell and alloy-LnF <sub>3</sub> nanoparticles as examined by variable energy X-ray photo-electron spectroscopy. <i>Nanoscale</i> , 2011, 3, 3376.	5.6	26
31	TG-FTIR, LC/MS, XANES and Py-FIMS to disclose the thermal decomposition pathways and aromatic N formation during dipeptide pyrolysis in a soil matrix. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 90, 164-173.	5.5	23
32	Soil organic matter characteristics as indicator of Chernozem genesis in the Baltic Sea region. <i>Geoderma Regional</i> , 2016, 7, 187-200.	2.1	20
33	Soil organic matter characteristics in drained and rewetted peatlands of northern Germany: Chemical and spectroscopic analyses. <i>Geoderma</i> , 2019, 353, 468-481.	5.1	19
34	The structure of haplobasaltic glasses investigated using X-ray absorption near edge structure (XANES) spectroscopy at the Si, Al, Mg, and O K-edges and Ca, Si, and Al L <sub>2,3</sub> -edges. <i>Chemical Geology</i> , 2016, 420, 213-230.	3.3	18
35	Probing the Structure of NaYF <sub>4</sub> Nanocrystals using Synchrotron-Based Energy-Dependent X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21639-21646.	3.1	15
36	X-ray Excited Optical Luminescence from Diamond Thin Films: The Contribution of sp <sup>2</sup> - and H-Bonded Carbon to the Luminescence. <i>Journal of the American Chemical Society</i> , 2007, 129, 1476-1477.	13.7	14

#	ARTICLE	IF	CITATIONS
37	High-energy and high-power Zn–Ni flow batteries with semi-solid electrodes. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4076-4085.	4.9	14
38	Bulk sensitive determination of the Fe <sup>3+</sup> /Fe <sup>Tot</sup> -ratio in minerals by Fe L <sub>2/3</sub> -edge X-ray Raman scattering. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 815-820.	3.0	9
39	Zinc Porphyrin-Driven Assembly of Gold Nanofingers. <i>Small</i> , 2008, 4, 497-506.	10.0	8
40	Chemistry and Associations of Carbon in Water-Stable Soil Aggregates from a Long-Term Temperate Agroecosystem and Implications on Soil Carbon Stabilization. <i>ACS Agricultural Science and Technology</i> , 2021, 1, 294-302.	2.3	1
41	Direct Observation of Optical Band Gap Components in Ga <sub>1-x</sub> Zn <sub>x</sub> N <sub>1-x</sub> O <sub>x</sub> Solid-Solution Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19438-19444.	3.1	1
42	Positron-emitting radiotracers spatially resolve unexpected biogeochemical relationships linked with methane oxidation in Arctic soils. <i>Global Change Biology</i> , 2022, , .	9.5	0