

# Tomasz Kosmala

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

980  
citations

471509

17  
h-index

580821

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1399  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atom-by-atom identification of catalytic active sites in operando conditions by quantitative noise detection. <i>Joule</i> , 2022, 6, 617-635.	24.0	20
2	Interfacial chemistry and electroactivity of black phosphorus decorated with transition metals. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 684-692.	6.0	7
3	Highly Graphitized Fe-N-C Electrocatalysts Prepared from Chitosan Hydrogel Frameworks. <i>Catalysts</i> , 2021, 11, 390.	3.5	15
4	Effects of the induced micro- and meso-porosity on the single site density and turn over frequency of Fe-N-C carbon electrodes for the oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 291, 120068.	20.2	62
5	Sulfur Doping versus Hierarchical Pore Structure: The Dominating Effect on the Fe-N-C Site Density, Activity, and Selectivity in Oxygen Reduction Reaction Electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 42693-42705.	8.0	31
6	Operando visualization of the hydrogen evolution reaction with atomic-scale precision at different metal-graphene interfaces. <i>Nature Catalysis</i> , 2021, 4, 850-859.	34.4	81
7	Strain Induced Phase Transition of WS <sub>2</sub> by Local Dewetting of Au/Mica Film upon Annealing. <i>Surfaces</i> , 2021, 4, 1-8.	2.3	8
8	Porphyrin bi-layer formation induced by a surface confined reduction on an iodine-modified Au(100) electrode surface. <i>Electrochimica Acta</i> , 2020, 360, 137026.	5.2	4
9	Upcycling of polyurethane into iron-nitrogen-carbon electrocatalysts active for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2020, 362, 137200.	5.2	36
10	One-pot synthesis of MoS <sub>2</sub> (1-x)Se <sub>2x</sub> on N-doped reduced graphene oxide: tailoring chemical and structural properties for photoenhanced hydrogen evolution reaction. <i>Nanoscale Advances</i> , 2020, 2, 4830-4840.	4.6	3
11	Chitosan-Derived Nitrogen-Doped Carbon Electrocatalyst for a Sustainable Upgrade of Oxygen Reduction to Hydrogen Peroxide in UV-Assisted Electro-Fenton Water Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14425-14440.	6.7	78
12	Establishing reactivity descriptors for platinum group metal (PGM)-free Fe-N-C catalysts for PEM fuel cells. <i>Energy and Environmental Science</i> , 2020, 13, 2480-2500.	30.8	205
13	Stable, Active, and Methanol-Tolerant PGM-Free Surfaces in an Acidic Medium: Electron Tunneling at Play in Pt/FeNC Hybrid Catalysts for Direct Methanol Fuel Cell Cathodes. <i>ACS Catalysis</i> , 2020, 10, 7475-7485.	11.2	28
14	Electrochemical Scanning Tunneling Microscopy Investigations of Fe <sub>4</sub> -Based Macrocyclic Molecules Adsorbed on Au(111) and Their Implications in the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2020, 7, 1431-1437.	3.4	21
15	Effect of Ni Doping on the MoS <sub>2</sub> Structure and Its Hydrogen Evolution Activity in Acid and Alkaline Electrolytes. <i>Surfaces</i> , 2019, 2, 531-545.	2.3	34
16	Metallic Twin Boundaries Boost the Hydrogen Evolution Reaction on the Basal Plane of Molybdenum Selenotellurides. <i>Advanced Energy Materials</i> , 2018, 8, 1800031.	19.5	80
17	Enhancing the Oxygen Electroreduction Activity through Electron Tunnelling: CoO Ultrathin Films on Pd(100). <i>ACS Catalysis</i> , 2018, 8, 2343-2352.	11.2	32
18	Porphyrin Layers at Cu/Au(111)-Electrolyte Interfaces: In Situ EC-STM Study. <i>Topics in Catalysis</i> , 2018, 61, 1335-1349.	2.8	13

#	ARTICLE	IF	CITATIONS
19	Probing the correlation between Pt-support interaction and oxygen reduction reaction activity in mesoporous carbon materials modified with Pt-N active sites. <i>Electrochimica Acta</i> , 2018, 277, 287-300.	5.2	45
20	Highly Efficient MoS <sub>2</sub> /Ag <sub>2</sub> S/Ag Photoelectrocatalyst Obtained from a Recycled DVD Surface. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7818-7825.	6.7	29
21	Potential Driven Non-Reactive Phase Transitions of Ordered Porphyrin Molecules on Iodine-Modified Au(100): An Electrochemical Scanning Tunneling Microscopy (EC-STM) Study. <i>Surfaces</i> , 2018, 1, 12-28.	2.3	9
22	Molecular Ordering at the Interface Between Liquid Water and Rutile TiO <sub>2</sub> (110). <i>Advanced Materials Interfaces</i> , 2015, 2, 1500246.	3.7	68
23	In situ scanning tunneling microscopy study of Ca-modified rutile TiO <sub>2</sub> (110) in bulk water. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 438-443.	2.8	9
24	Surface-Enhanced Polymerization via Schiff-Base Coupling at the Solid-Water Interface under pH Control. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19228-19235.	3.1	39
25	Potential dependence of self-assembled porphyrin layers on a Cu(111) electrode surface: In-situ STM study. <i>Surface Science</i> , 2015, 631, 207-212.	1.9	22