

# Ondřej Tomanec

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

1,434  
citations

393982

19  
h-index

580395

25  
g-index

26  
all docs

26  
docs citations

26  
times ranked

2797  
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth mechanism of strongly emitting CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> perovskite nanocrystals with a tunable bandgap. <i>Nature Communications</i> , 2017, 8, 996.	5.8	210
2	On the Controlled Loading of Single Platinum Atoms as a Co-catalyst on TiO <sub>2</sub> Anatase for Optimized Photocatalytic H <sub>2</sub> Generation. <i>Advanced Materials</i> , 2020, 32, e1908505.	11.1	189
3	Cyanographene and Graphene Acid: Emerging Derivatives Enabling High-Yield and Selective Functionalization of Graphene. <i>ACS Nano</i> , 2017, 11, 2982-2991.	7.3	133
4	Mixed-Valence Single-Atom Catalyst Derived from Functionalized Graphene. <i>Advanced Materials</i> , 2019, 31, e1900323.	11.1	129
5	Maghemite decorated with ultra-small palladium nanoparticles (Î <sup>3</sup> -Fe <sub>2</sub> O <sub>3</sub> -Pd): applications in the Heck-Mizoroki olefination, Suzuki reaction and allylic oxidation of alkenes. <i>Green Chemistry</i> , 2016, 18, 2363-2373.	4.6	87
6	Fast and selective reduction of nitroarenes under visible light with an earth-abundant plasmonic photocatalyst. <i>Nature Nanotechnology</i> , 2022, 17, 485-492.	15.6	78
7	In Situ Generation of Pd-Pt Core-Shell Nanoparticles on Reduced Graphene Oxide (Pd@Pt/rGO) Using Microwaves: Applications in Dehalogenation Reactions and Reduction of Olefins. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 2815-2824.	4.0	67
8	Vapor-Infiltration Approach toward Selenium/Reduced Graphene Oxide Composites Enabling Stable and High-Capacity Sodium Storage. <i>ACS Nano</i> , 2018, 12, 7397-7405.	7.3	60
9	Functional Nanosheet Synthons by Covalent Modification of Transition-Metal Dichalcogenides. <i>Chemistry of Materials</i> , 2017, 29, 2066-2073.	3.2	56
10	Cobalt-entrenched N-, O-, and S-tridoped carbons as efficient multifunctional sustainable catalysts for base-free selective oxidative esterification of alcohols. <i>Green Chemistry</i> , 2018, 20, 3542-3556.	4.6	47
11	Advanced Photocatalysts: Pinning Single Atom Co-catalysts on Titania Nanotubes. <i>Advanced Functional Materials</i> , 2021, 31, 2102843.	7.8	44
12	Organic adsorbates have higher affinities to fluorographene than to graphene. <i>Applied Materials Today</i> , 2016, 5, 142-149.	2.3	43
13	Optimized Pt Single Atom Harvesting on TiO <sub>2</sub> Nanotubes Towards a Most Efficient Photocatalyst. <i>Small</i> , 2022, 18, e2104892.	5.2	43
14	Nanoporous AuPt and AuPtAg alloy co-catalysts formed by dewetting dealloying on an ordered TiO <sub>2</sub> nanotube surface lead to significantly enhanced photocatalytic H <sub>2</sub> generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13599-13606.	5.2	37
15	Forming a Highly Active, Homogeneously Alloyed AuPt Co-catalyst Decoration on TiO <sub>2</sub> Nanotubes Directly During Anodic Growth. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 18220-18226.	4.0	37
16	Iron-Oxide-Supported Ultrasmall ZnO Nanoparticles: Applications for Transesterification, Amidation, and O-Acylation Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3314-3320.	3.2	21
17	Selective Bromination of Graphene Oxide by the Hunsdiecker Reaction. <i>Chemistry - A European Journal</i> , 2017, 23, 10473-10479.	1.7	21
18	Endogenous Abscisic Acid Promotes Hypocotyl Growth and Affects Endoreduplication during Dark-Induced Growth in Tomato ( <i>Solanum lycopersicum</i> L.). <i>PLoS ONE</i> , 2015, 10, e0117793.	1.1	21

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19	Pt Single Atoms on TiO <sub>2</sub> Polymorphsâ€”Minimum Loading with a Maximized Photocatalytic Efficiency. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	20
20	Sulfonated dendritic mesoporous silica nanospheres: a metal-free Lewis acid catalyst for the upgrading of carbohydrates. <i>Green Chemistry</i> , 2020, 22, 1754-1762.	4.6	17
21	Single-Atom Catalysis: Mixed-Valence Single-Atom Catalyst Derived from Functionalized Graphene (Adv.) <i>Tj ETQq1 1 0.784314 r</i>	11.1	8
22	Spaced Titania Nanotube Arrays Allow the Construction of an Efficient N-Doped Hierarchical Structure for Visible-Light Harvesting. <i>ChemistryOpen</i> , 2018, 7, 131-135.	0.9	5
23	Polypyrrole and Carbon Nanotube Co-Composited Titania Anodes with Enhanced Sodium Storage Performance in Ether-Based Electrolyte. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800154.	2.7	5