Pavel V Cherepanov

List of Publications by Year
in descending order

20 papers	1,547 citations	623734 14 h-index	794594 19 g-index
20 all docs	20 docs citations	20 times ranked	1677 citing authors

#	Article	IF	Citations
1	A Roadmap to the Ammonia Economy. Joule, 2020, 4, 1186-1205.	24.0	782
2	Nitrogen reduction to ammonia at high efficiency and rates based on a phosphonium proton shuttle. Science, 2021, 372, 1187-1191.	12.6	289
3	Cobalt Phosphate Nanostructures for Non-Enzymatic Glucose Sensing at Physiological pH. ACS Applied Materials & Interfaces, 2018, 10, 42786-42795.	8.0	64
4	Enhanced electrocatalytic performance of palladium nanoparticles with high energy surfaces in formic acid oxidation. Journal of Materials Chemistry A, 2017, 5, 11582-11585.	10.3	58
5	Enhancement of the intrinsic light harvesting capacity of Cs₂AgBiBr₆double perovskiteviamodification with sulphide. Journal of Materials Chemistry A, 2020, 8, 2008-2020.	10.3	54
6	Ultrasound assisted formation of Alâ€“Ni electrocatalyst for hydrogen evolution. Ultrasonics Sonochemistry, 2015, 23, 142-147.	8.2	39
7	Electrochemical Behavior and Redox-Dependent Disassembly of Gallic Acid/Fe^{III} Metalâ€“Phenolic Networks. ACS Applied Materials & Interfaces, 2018, 10, 5828-5834.	8.0	37
8	Shape-Dependent Interactions of Palladium Nanocrystals with Hydrogen. Small, 2016, 12, 2450-2458.	10.0	34
9	Effect of high intensity ultrasound on Al3Ni2, Al3Ni crystallite size in binary AlNi (50 wt% of Ni) alloy. Ultrasonics Sonochemistry, 2015, 23, 26-30.	8.2	32
10	Understanding the Factors Determining the Faradaic Efficiency and Rate of the Lithium Redox-Mediated N₂ Reduction to Ammonia. Journal of Physical Chemistry C, 2021, 125, 11402-11410.	3.1	26
11	Up to which temperature ultrasound can heat the particle?. Ultrasonics Sonochemistry, 2015, 26, 9-14.	8.2	24
12	Stable Acidic Water Oxidation with a Cobaltâ€“Ironâ€“Lead Oxide Catalyst Operating via a Cobaltâ€Selective Selfâ€Healing Mechanism. Angewandte Chemie - International Edition, 2021, 60, 15821-15826.	13.8	23
13	Stable and Efficient Lithium Metal Anode Cycling through Understanding the Effects of Electrolyte Composition and Electrode Preconditioning. Chemistry of Materials, 2022, 34, 165-177.	6.7	22
14	Mixed metalâ€“antimony oxide nanocomposites: low pH water oxidation electrocatalysts with outstanding durability at ambient and elevated temperatures. Journal of Materials Chemistry A, 2021, 9, 27468-27484.	10.3	19
15	A safe Liâ€“Se battery in an ionic liquid-based electrolyte operating at 25â€“70 Â°C by using a N,S,O tri-doped mesoporous carbon host material. Sustainable Energy and Fuels, 2020, 4, 2322-2332.	4.9	15
16	Phase structuring in metal alloys: Ultrasound-assisted top-down approach to engineering of nanostructured catalytic materials. Ultrasonics Sonochemistry, 2017, 35, 556-562.	8.2	11
17	Durable Electrooxidation of Acidic Water Catalysed by a Cobaltâ€Bismuthâ€based Oxide Composite: An Unexpected Role of the Fâ€doped SnO₂ Substrate. ChemCatChem, 2022, 14, .	3.7	9
18	Intrinsic Catalytic Activity for the Alkaline Hydrogen Evolution of Layer-Expanded MoS₂ Functionalized with Nanoscale Ni and Co Sulfides. ACS Sustainable Chemistry and Engineering, 2022, 10, 7117-7133.	6.7	6

#	Article	IF	Citations
19	Stable Acidic Water Oxidation with a Cobaltâ€“Ironâ€“Lead Oxide Catalyst Operating via a Cobaltâ€Selective Selfâ€Healing Mechanism. Angewandte Chemie, 2021, 133, 15955-15960.	2.0	3
20	(Digital Presentation) Towards Li-Mediated Nitrogen Reduction Reaction at High Current-to-Ammonia Efficiency. ECS Meeting Abstracts, 2022, MA2022-01, 1788-1788.	0.0	0