

Alexey S Cherevan

List of Publications by Year in descending order

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32
papers

1,429
citations

471061

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433756

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docs citations

34
times ranked

2247
citing authors

#	ARTICLE	IF	CITATIONS
1	Application and Future Challenges of Functional Nanocarbon Hybrids. <i>Advanced Materials</i> , 2014, 26, 2295-2318.	11.1	290
2	Polyoxometalates on Functional Substrates: Concepts, Synergies, and Future Perspectives. <i>Advanced Science</i> , 2020, 7, 1903511.	5.6	129
3	Layered double hydroxide (LDH)-based materials: A mini-review on strategies to improve the performance for photocatalytic water splitting. <i>Journal of Energy Chemistry</i> , 2022, 64, 406-431.	7.1	125
4	Ti-based MOFs: New insights on the impact of ligand composition and hole scavengers on stability, charge separation and photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119626.	10.8	121
5	Oxygen vacancies and interfaces enhancing photocatalytic hydrogen production in mesoporous CNT/TiO ₂ hybrids. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 574-582.	10.8	117
6	Selective ligand removal to improve accessibility of active sites in hierarchical MOFs for heterogeneous photocatalysis. <i>Nature Communications</i> , 2022, 13, 282.	5.8	83
7	Immobilization of Co, Mn, Ni and Fe oxide co-catalysts on TiO ₂ for photocatalytic water splitting reactions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18568-18579.	5.2	66
8	Interface engineering in nanocarbon@Ta ₂ O ₅ hybrid photocatalysts. <i>Energy and Environmental Science</i> , 2014, 7, 791-796.	15.6	62
9	Ordered Mesoporous TiO ₂ Gyroids: Effects of Pore Architecture and Nb-Doping on Photocatalytic Hydrogen Evolution under UV and Visible Irradiation. <i>Advanced Energy Materials</i> , 2018, 8, 1802566.	10.2	46
10	Growth, structure and stability of sputter-deposited MoS ₂ thin films. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1115-1126.	1.5	44
11	Samarium-Doped Nickel Oxide for Superior Inverted Perovskite Solar Cells: Insight into Doping Effect for Electronic Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2102452.	7.8	41
12	Non-destructive functionalisation for atomic layer deposition of metal oxides on carbon nanotubes: effect of linking agents and defects. <i>Nanoscale</i> , 2015, 7, 3028-3034.	2.8	36
13	Large area photoelectrodes based on hybrids of CNT fibres and ALD-grown TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2017, 5, 24695-24706.	5.2	36
14	Mesoporous Semiconductors: A New Model To Assess Accessible Surface Area and Increased Photocatalytic Activity?. <i>ACS Applied Energy Materials</i> , 2018, 1, 5787-5799.	2.5	34
15	Controlled synthesis of polyacrylonitrile via reversible addition-fragmentation chain-transfer pseudoliving radical polymerization and its thermal behavior. <i>Polymer Science - Series B</i> , 2011, 53, 391-403.	0.3	27
16	Ordered gyroidal tantalum oxide photocatalysts: eliminating diffusion limitations and tuning surface barriers. <i>Nanoscale</i> , 2016, 8, 16694-16701.	2.8	27
17	A crystalline and 3D periodically ordered mesoporous quaternary semiconductor for photocatalytic hydrogen generation. <i>Nanoscale</i> , 2018, 10, 3225-3234.	2.8	25
18	Surface Anchoring and Active Sites of [Mo ₃ S ₁₃] ²⁺ Clusters as Co-Catalysts for Photocatalytic Hydrogen Evolution. <i>ACS Catalysis</i> , 2022, 12, 6641-6650.	5.5	19

#	ARTICLE	IF	CITATIONS
19	Elucidating the formation and active state of Cu co-catalysts for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21958-21971.	5.2	17
20	Isolation Strategy towards Earth-Abundant Single-Site Co-Catalysts for Photocatalytic Hydrogen Evolution Reaction. <i>Catalysts</i> , 2021, 11, 417.	1.6	12
21	Effects of synthesis conditions and the mechanism of homopolymerization of acrylonitrile on the thermal behavior of the resulting polymer. <i>Polymer Science - Series B</i> , 2013, 55, 1-13.	0.3	10
22	Phosphate-templated Encapsulation of a $\{Co^{II}Co^{IV}O_4\}$ Cubane in Germanotungstates as Carbon-Free Homogeneous Water Oxidation Photocatalysts. <i>ChemSusChem</i> , 2021, 14, 2529-2536.	3.6	10
23	How to Evaluate and Manipulate Charge Transfer and Photocatalytic Response at Hybrid Nanocarbon-Metal Oxide Interfaces. <i>Advanced Functional Materials</i> , 2018, 28, 1704730.	7.8	9
24	Femtosecond laser-assisted synthesis of Ni/Au BONs in various alcoholic solvents. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	9
25	Beware of Doping: Ta_2O_5 Nanotube Photocatalyst Using CNTs as Hard Templates. <i>ACS Applied Energy Materials</i> , 2018, 1, 1259-1267.	2.5	7
26	Hybrid carbon spherogels: carbon encapsulation of nano-titania. <i>Chemical Communications</i> , 2021, 57, 3905-3908.	2.2	7
27	Growth mechanism and electrochemical properties of hierarchical hollow SnO ₂ microspheres with a chestnut-morphology. <i>CrystEngComm</i> , 2017, 19, 6454-6463.	1.3	7
28	Application of Functional Hybrids Incorporating Carbon Nanotubes or Graphene. , 2014, , 387-433.		4
29	Dual Excitation Transient Photocurrent Measurement for Charge Transfer Studies in Nanocarbon Hybrids and Composites. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600244.	1.9	4
30	Solvent effect in the formation of polyconjugated system during pyrolysis of polyacrylonitrile. <i>Russian Chemical Bulletin</i> , 2012, 61, 259-263.	0.4	2
31	Immobilization of a $[Co^{III}Co^{II}(H_2O)_{11}O_{39}]^{7-}$ Polyoxoanion for the Photocatalytic Oxygen Evolution Reaction. <i>ACS Materials Au</i> , 2022, 2, 505-515.	2.6	2
32	Nanocarbon Hybrid Materials. , 2016, , 625-646.		0