Nirmal Kumar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1818805/publications.pdf

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29	1,158	394286	552653
papers	citations	19 h-index	26 g-index

29	29	29	1031
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Low-cost high entropy alloy (HEA) for high-efficiency oxygen evolution reaction (OER). Nano Research, 2022, 15, 4799-4806.	5.8	80
2	Nanomaterials Based Biosensing: Methods and Principle of Detection. Materials Horizons, 2022, , 1-27.	0.3	1
3	Industry 4.0 and Digitalisation in Healthcare. Materials, 2022, 15, 2140.	1.3	46
4	Thermal Spray Coatings for Electromagnetic Wave Absorption and Interference Shielding: A Review and Future Challenges. Advanced Engineering Materials, 2022, 24, .	1.6	12
5	Cryomilling as environmentally friendly synthesis route to prepare nanomaterials. International Materials Reviews, 2021, 66, 493-532.	9.4	31
6	Easy scalable avenue of anti-bacterial nanocomposites coating containing Ag NPs prepared by cryomilling. Materials Today Communications, 2021, 26, 102020.	0.9	0
7	Potential pathway for recycling of the paper mill sludge compost for brick making. Construction and Building Materials, 2021, 278, 122384.	3.2	23
8	Emergence of machine learning in the development of high entropy alloy and their prospects in advanced engineering applications. Emergent Materials, 2021, 4, 1635-1648.	3.2	21
9	Nature-inspired materials: Emerging trends and prospects. NPG Asia Materials, 2021, 13, .	3.8	71
10	A perspective on the catalysis using the high entropy alloys. Nano Energy, 2021, 88, 106261.	8.2	87
11	Electrooxidation of Hydrazine Utilizing High-Entropy Alloys: Assisting the Oxygen Evolution Reaction at the Thermodynamic Voltage. ACS Catalysis, 2021, 11, 14000-14007.	5.5	47
12	Nanofabrication route to achieve sustainable production of next generation defect-free graphene: analysis and characterisation. Nanofabrication, 2021, 6, 36-43.	1.1	4
13	Multi-component (Agâ€“Auâ€“Cuâ€“Pdâ€“Pt) alloy nanoparticle-decorated p-type 2D-molybdenum disulfide (MoS₂) for enhanced hydrogen sensing. Nanoscale, 2020, 12, 11830-11841.	2.8	42
14	Formic acid and methanol electro-oxidation and counter hydrogen production using nano high entropy catalyst. Materials Today Energy, 2020, 16, 100393.	2.5	38
15	High-Entropy Alloys as Catalysts for the CO₂ and CO Reduction Reactions: Experimental Realization. ACS Catalysis, 2020, 10, 3658-3663.	5.5	244
16	Ultra-Low-Temperature CO Oxidation Activity of Octahedral Site Cobalt Species in Co₃O₄ Based Catalysts: Unravelling the Origin of the Unique Catalytic Property. Journal of Physical Chemistry C, 2019, 123, 19557-19571.	1.5	41
17	Stabilization of a Highly Concentrated Colloidal Suspension of Pristine Metallic Nanoparticles. Langmuir, 2019, 35, 2668-2673.	1.6	20
18	Cryomilling: An environment friendly approach of preparation large quantity ultra refined pure aluminium nanoparticles. Journal of Materials Research and Technology, 2019, 8, 63-74.	2.6	69

#	Article	IF	Citations
19	The Effect of Configurational Entropy of Mixing on the Design and Development of Novel Materials. Proceedings of the Indian National Science Academy, 2019, , .	0.5	3
20	Effect of Al Addition on the Microstructural Evolution of Equiatomic CoCrFeMnNi Alloy. Transactions of the Indian Institute of Metals, 2018, 71, 2749-2758.	0.7	21
21	Preparation of nanocrystalline high-entropy alloys via cryomilling of cast ingots. Journal of Materials Science, 2018, 53, 13411-13423.	1.7	55
22	Low-Temperature CO Oxidation over Combustion Made Fe- and Cr-Doped Co₃O₄ Catalysts: Role of Dopantâ€™s Nature toward Achieving Superior Catalytic Activity and Stability. Journal of Physical Chemistry C, 2017, 121, 15256-15265.	1.5	67
23	Green synthesis of Ag nanoparticles in large quantity by cryomilling. RSC Advances, 2016, 6, 111380-111388.	1.7	40
24	Hollow Gold Nanoprism as Highly Efficient â€œSingleâ€•Nanotransducer for Surface-Enhanced Raman Scattering Applications. Journal of Physical Chemistry C, 2016, 120, 25548-25556.	1.5	16
25	Fabrication of novel cryomill for synthesis of high purity metallic nanoparticles. Review of Scientific Instruments, 2015, 86, 083903.	0.6	32
26	Effect of functional groups (methyl, phenyl) on organicâ€“inorganic hybrid solâ€“gel silica coatings on surface modified SS 316. Ceramics International, 2012, 38, 6565-6572.	2.3	27
27	Effect of Plasma Surface Pretreatment on Ce3+-Doped GPTMS-ZrO2 Self-Healing Coatings on Aluminum Alloy. ISRN Corrosion, 2012, 2012, 1-9.	0.3	6
28	Large-scale manufacturing route to metamaterial coatings using thermal spray techniques and their response to solar radiation. Emergent Materials, 0, , 1.	3.2	5
29	Role of thermal spray in combating climate change. Emergent Materials, 0, , 1.	3.2	9