

Santosh Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

5,684
citations

126907

33
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276875

41
g-index

43
all docs

43
docs citations

43
times ranked

6724
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar energy harvesting with carbon nitrides. , 2022, , 81-107.		0
2	Mechanochemically synthesized Pb-free halide perovskite-based Cs ₂ AgBiBr ₆ â€“Cuâ€“RGO nanocomposite for photocatalytic CO ₂ reduction. Journal of Materials Chemistry A, 2021, 9, 12179-12187.	10.3	70
3	Hypercrosslinked Polymers as a Photocatalytic Platform for Visibleâ€“Lightâ€“Driven CO ₂ Photoreduction Using H ₂ O. ChemSusChem, 2021, 14, 1720-1727.	6.8	42
4	Strategies for the deposition of LaFeO ₃ photocathodes: improving the photocurrent with a polymer template. Sustainable Energy and Fuels, 2020, 4, 884-894.	4.9	15
5	Polypyrrole-Promoted rGOâ€“MoS ₂ Nanocomposites for Enhanced Photocatalytic Conversion of CO ₂ and H ₂ O to CO, CH ₄ , and H ₂ Products. ACS Applied Energy Materials, 2020, 3, 9897-9909.	5.1	61
6	Silver-Decorated TiO ₂ Inverse Opal Structure for Visible Light-Induced Photocatalytic Degradation of Organic Pollutants and Hydrogen Evolution. ACS Applied Materials & Interfaces, 2020, 12, 41200-41210.	8.0	41
7	Two-dimensional materials for photocatalytic water splitting and CO ₂ reduction. , 2020, , 173-227.		7
8	PrFeO ₃ Photocathodes Prepared Through Spray Pyrolysis. ChemElectroChem, 2020, 7, 1365-1372.	3.4	27
9	All-Inorganic CsPbBr ₃ Nanocrystals: Gram-Scale Mechanochemical Synthesis and Selective Photocatalytic CO ₂ Reduction to Methane. ACS Applied Energy Materials, 2020, 3, 4509-4522.	5.1	75
10	Recent Advances in Photocatalytic Materials for Solar Fuel Production from Water and Carbon Dioxide. RSC Energy and Environment Series, 2020, , 80-115.	0.5	2
11	Photocatalytic Activation and Reduction of CO ₂ to CH ₄ over Single Phase Nano Cu ₃ SnS ₄ : A Combined Experimental and Theoretical Study. ACS Applied Energy Materials, 2019, 2, 5677-5685.	5.1	54
12	N-doped C dot/CoAl-layered double hydroxide/g-C ₃ N ₄ hybrid composites for efficient and selective solar-driven conversion of CO ₂ into CH ₄ . Composites Part B: Engineering, 2019, 176, 107212.	12.0	86
13	Direct Z-Scheme g-C ₃ N ₄ /FeWO ₄ Nanocomposite for Enhanced and Selective Photocatalytic CO ₂ Reduction under Visible Light. ACS Applied Materials & Interfaces, 2019, 11, 6174-6183.	8.0	197
14	Graphite-protected CsPbBr ₃ perovskite photoanodes functionalised with water oxidation catalyst for oxygen evolution in water. Nature Communications, 2019, 10, 2097.	12.8	124
15	Nanocatalysts for CO ₂ Conversion. RSC Catalysis Series, 2019, , 207-235.	0.1	2
16	g-C ₃ N ₄ /NiAl-LDH 2D/2D Hybrid Heterojunction for High-Performance Photocatalytic Reduction of CO ₂ into Renewable Fuels. ACS Applied Materials & Interfaces, 2018, 10, 2667-2678.	8.0	438
17	In situ phase transformation synthesis of unique Janus Ag ₂ O/Ag ₂ CO ₃ heterojunction photocatalyst with improved photocatalytic properties. Applied Surface Science, 2018, 445, 555-562.	6.1	37
18	Single atom Cu(I) promoted mesoporous titanias for photocatalytic Methyl Orange depollution and H ₂ production. Applied Catalysis B: Environmental, 2018, 232, 501-511.	20.2	75

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19	Delaminated CoAl ₂ O ₃ /Layered Double Hydroxide@TiO ₂ Heterojunction Nanocomposites for Photocatalytic Reduction of CO ₂ . Particle and Particle Systems Characterization, 2018, 35, 1700317.	2.3	40
20	g-C ₃ N ₄ -Based Nanomaterials for Visible Light-Driven Photocatalysis. Catalysts, 2018, 8, 74.	3.5	188
21	Construction of Bi ₂ WO ₆ /RGO/g-C ₃ N ₄ 2D/2D/2D hybrid Z-scheme heterojunctions with large interfacial contact area for efficient charge separation and high-performance photoreduction of CO ₂ and H ₂ O into solar fuels. Applied Catalysis B: Environmental, 2018, 239, 586-598.	20.2	278
22	Size-Dependent Visible Light Photocatalytic Performance of Cu ₂ O Nanocubes. ChemCatChem, 2018, 10, 3554-3563.	3.7	44
23	P25@CoAl layered double hydroxide heterojunction nanocomposites for CO ₂ photocatalytic reduction. Applied Catalysis B: Environmental, 2017, 209, 394-404.	20.2	200
24	g-C ₃ N ₄ (2D)/CdS (1D)/rGO (2D) dual-interface nano-composite for excellent and stable visible light photocatalytic hydrogen generation. International Journal of Hydrogen Energy, 2017, 42, 5971-5984.	7.1	105
25	Cobalt promoted TiO ₂ /GO for the photocatalytic degradation of oxytetracycline and Congo Red. Applied Catalysis B: Environmental, 2017, 201, 159-168.	20.2	298
26	Cu and Fe oxides dispersed on SBA-15: A Fenton type bimetallic catalyst for N,N-diethyl-p-phenyl diamine degradation. Applied Catalysis B: Environmental, 2016, 199, 323-330.	20.2	119
27	Facile synthesis of hierarchical Cu ₂ O nanocubes as visible light photocatalysts. Applied Catalysis B: Environmental, 2016, 189, 226-232.	20.2	132
28	Surface plasmon resonance-induced photocatalysis by Au nanoparticles decorated mesoporous g-C ₃ N ₄ nanosheets under direct sunlight irradiation. Materials Research Bulletin, 2016, 75, 51-58.	5.2	74
29	Enhancement of photocatalytic efficiency using heterostructured SiO ₂ @Ta ₂ O ₅ thin films. Materials Research Express, 2015, 2, 056404.	1.6	5
30	In situ growth strategy for highly efficient Ag ₂ CO ₃ /g-C ₃ N ₄ hetero/nanojunctions with enhanced photocatalytic activity under sunlight irradiation. Journal of Environmental Chemical Engineering, 2015, 3, 852-861.	6.7	53
31	g-C ₃ N ₄ /NaTaO ₃ organic-inorganic hybrid nanocomposite: High-performance and recyclable visible light driven photocatalyst. Materials Research Bulletin, 2014, 49, 310-318.	5.2	53
32	Synthesis of highly efficient and recyclable visible-light responsive mesoporous g-C ₃ N ₄ photocatalyst via facile template-free sonochemical route. RSC Advances, 2014, 4, 8132.	3.6	68
33	Influence of La-doping on phase transformation and photocatalytic properties of ZnTiO ₃ nanoparticles synthesized via modified sol-gel method. Physical Chemistry Chemical Physics, 2014, 16, 728-735.	2.8	93
34	Synthesis of Cr and La-codoped SrTiO ₃ nanoparticles for enhanced photocatalytic performance under sunlight irradiation. Physical Chemistry Chemical Physics, 2014, 16, 23819-23828.	2.8	88
35	Fe-doped and -mediated graphitic carbon nitride nanosheets for enhanced photocatalytic performance under natural sunlight. Journal of Materials Chemistry A, 2014, 2, 6772.	10.3	536
36	Synthesis of novel and stable g-C ₃ N ₄ /N-doped SrTiO ₃ hybrid nanocomposites with improved photocurrent and photocatalytic activity under visible light irradiation. Dalton Transactions, 2014, 43, 16105-16114.	3.3	105

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37	Cost-effective and eco-friendly synthesis of novel and stable N-doped ZnO/g-C ₃ N ₄ core-shell nanoplates with excellent visible-light responsive photocatalysis. <i>Nanoscale</i> , 2014, 6, 4830.	5.6	433
38	Phase Transformation Synthesis of Novel Ag ₂ O/Ag ₂ CO ₃ Heterostructures with High Visible Light Efficiency in Photocatalytic Degradation of Pollutants. <i>Advanced Materials</i> , 2014, 26, 892-898.	21.0	443
39	Template-free and eco-friendly synthesis of hierarchical Ag ₃ PO ₄ microcrystals with sharp corners and edges for enhanced photocatalytic activity under visible light. <i>Materials Letters</i> , 2014, 123, 172-175.	2.6	22
40	Synthesis of Magnetically Separable and Recyclable g-C ₃ N ₄ -Fe ₃ O ₄ Hybrid Nanocomposites with Enhanced Photocatalytic Performance under Visible-Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26135-26143.	3.1	358
41	Synthesis of a novel and stable g-C ₃ N ₄ -Ag ₃ PO ₄ hybrid nanocomposite photocatalyst and study of the photocatalytic activity under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5333.	10.3	584
42	Hierarchical ZnO nanorod like architecture synthesized via reverse micellar route for improved photocatalytic activity. <i>Materials Letters</i> , 2013, 101, 33-36.	2.6	6
43	Dielectric behaviour of sodium and potassium doped magnesium titanate. <i>Bulletin of Materials Science</i> , 2012, 35, 1165-1171.	1.7	6