Abhinandan Kumar

List of Publications by Year
in descending order

20 papers	1,927 citations	516710 16 h-index	794594 19 g-index
21 all docs	21 docs citations	21 times ranked	1473 citing authors

#	Article	IF	Citations
1	Impact of COVID-19 on greenhouse gases emissions: A critical review. Science of the Total Environment, 2022, 806, 150349.	8.0	101
2	Artificial leaf for light-driven CO2 reduction: Basic concepts, advanced structures and selective solar-to-chemical products. Chemical Engineering Journal, 2022, 430, 133031.	12.7	48
3	The practicality and prospects for disinfection control by photocatalysis during and post-pandemic: A critical review. Environmental Research, 2022, 209, 112814.	7.5	24
4	Potential of graphene based photocatalyst for antiviral activity with emphasis on COVID-19: A review. Journal of Environmental Chemical Engineering, 2022, 10, 107527.	6.7	14
5	CO2 photoreduction into solar fuels via vacancy engineered bismuth-based photocatalysts: Selectivity and mechanistic insights. Chemical Engineering Journal, 2022, 439, 135563.	12.7	56
6	Green aspects of photocatalysts during corona pandemic: a promising role for the deactivation of COVID-19 virus. RSC Advances, 2022, 12, 13609-13627.	3.6	11
7	C-, N-Vacancy defect engineered polymeric carbon nitride towards photocatalysis: viewpoints and challenges. Journal of Materials Chemistry A, 2021, 9, 111-153.	10.3	320
8	An overview on polymeric carbon nitride assisted photocatalytic CO2 reduction: Strategically manoeuvring solar to fuel conversion efficiency. Chemical Engineering Science, 2021, 230, 116219.	3.8	72
9	Surface defect engineering of metal oxides photocatalyst for energy application and water treatment. Journal of Materiomics, 2021, 7, 388-418.	5.7	117
10	An overview of converting reductive photocatalyst into all solid-state and direct Z-scheme system for water splitting and CO2 reduction. Journal of Industrial and Engineering Chemistry, 2021, 93, 1-27.	5.8	43
11	Indium sulfide-based photocatalysts for hydrogen production and water cleaning: a review. Environmental Chemistry Letters, 2021, 19, 1065-1095.	16.2	83
12	Recent progress in bismuth oxyhalides-based heterojunctions for CO2 photoreduction. , 2021, , 363-387.		3
13	Graphitic Carbon Nitride-based New Advanced Materials for Photocatalytic Applications. Current Analytical Chemistry, 2021, 17, 150-165.	1.2	6
14	Step-scheme heterojunction photocatalysts for solar energy, water splitting, CO2 conversion, and bacterial inactivation: a review. Environmental Chemistry Letters, 2021, 19, 2941-2966.	16.2	162
15	Phenolic compounds degradation: Insight into the role and evidence of oxygen vacancy defects engineering on nanomaterials. Science of the Total Environment, 2021, 800, 149410.	8.0	36
16	Perspective and status of polymeric graphitic carbon nitride based Z-scheme photocatalytic systems for sustainable photocatalytic water purification. Chemical Engineering Journal, 2020, 391, 123496.	12.7	308
17	Performance improvement strategies of CuWO4 photocatalyst for hydrogen generation and pollutant degradation. Journal of Environmental Chemical Engineering, 2020, 8, 104230.	6.7	48
18	Facile synthesis and extended visible light activity of oxygen and sulphur co-doped carbon nitride quantum dots modified Bi2MoO6 for phenol degradation. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 397, 112588.	3.9	47

#	Article	IF	Citations
19	Exploring recent advances in silver halides and graphitic carbon nitride-based photocatalyst for energy and environmental applications. Arabian Journal of Chemistry, 2020, 13, 8271-8300.	4.9	33
20	Recent advances in noble metal free doped graphitic carbon nitride based nanohybrids for photocatalysis of organic contaminants in water: A review. Applied Materials Today, 2019, 15, 494-524.	4.3	393