Wen Cui

List of PR Articles by Year in descending order

Source: //exaly.com/author-pdf/2071561/publications.pdf

Version: 2025-02-01

49 PR articles	4,810 PR citations	81898 35 PR h-index	165105 49 g-index
50 documents	4949 doc citations	100455 35 h-index	4030 citing authors

#	Article	IF	PR Citations
1	Photocatalytic NO removal: complete oxidation and reduction reaction for by-product inhibition and end-product recovery. Environmental Science: Nano, 2025, 12, 67-97.	3.7	7
2	Rational Design of LDH/Zn₂SnO₄ Heterostructures for Efficient Mineralization of Toluene Through Boosted Interfacial Charge Separation. Energy and Environmental Materials, 2023, 6, .	13.9	27
3	Targeted NO Oxidation and Synchronous NO₂ Inhibition via Oriented ¹O₂ Formation Based on Lewis Acid Site Adjustment. Environmental Science & Technology, 2023, 57, 12890-12900.	11.1	72
4	Lightâ€Induced Dynamic Stability of Oxygen Vacancies in BiSbO₄ for Efficient Photocatalytic Formaldehyde Degradation. Energy and Environmental Materials, 2022, 5, 305-312.	13.9	51
5	Earthâ€Abundant CaCO₃â€Based Photocatalyst for Enhanced ROS Production, Toxic Byâ€Product Suppression, and Efficient NO Removal. Energy and Environmental Materials, 2022, 5, 928-934.	13.9	18
6	Design of Organic-Free Superhydrophobic TiO₂ with Ultraviolet Stability or Ultraviolet-Induced Switchable Wettability. ACS Applied Materials & Interfaces, 2022, 14, 9864-9872.	8.0	44
7	Perovskite Nanocrystalsâ€Based Heterostructures: Synthesis Strategies, Interfacial Effects, and Photocatalytic Applications. Solar Rrl, 2021, 5, .	4.6	27
8	Surface Lattice Oxygen Activation on Sr₂Sb₂O₇ Enhances the Photocatalytic Mineralization of Toluene: from Reactant Activation, Intermediate Conversion to Product Desorption. ACS Applied Materials & Interfaces, 2021, 13, 5153-5164.	8.0	59
9	Optimizing the Electronic Structure of BiOBr Nanosheets via Combined Ba Doping and Oxygen Vacancies for Promoted Photocatalysis. Journal of Physical Chemistry C, 2021, 125, 8597-8605.	3.1	47
10	Alkali/alkaline-earth metal intercalated g-C₃N₄ induced charge redistribution and optimized photocatalysis: status and challenges. JPhys Energy, 2021, 3, 032008.	4.8	14
11	Crystal-Structure-Dependent Photocatalytic Redox Activity and Reaction Pathways over Ga₂O₃ Polymorphs. ACS Applied Materials & Interfaces, 2021, 13, 50975-50987.	8.0	22
12	Inhibition of the toxic byproduct during photocatalytic NO oxidation via La doping in ZnO. Chinese Chemical Letters, 2020, 31, 751-754.	7.5	37
13	Nitrogen defect structure and NO+ intermediate promoted photocatalytic NO removal on H2 treated g-C3N4. Chemical Engineering Journal, 2020, 379, 122282.	12.0	344
14	Unraveling the mechanism of binary channel reactions in photocatalytic formaldehyde decomposition for promoted mineralization. Applied Catalysis B: Environmental, 2020, 260, 118130.	20.5	121
15	The pivotal roles of spatially separated charge localization centers on the molecules activation and photocatalysis mechanism. Applied Catalysis B: Environmental, 2020, 262, 118251.	20.5	100
16	Carbon vacancy in C3N4 nanotube: Electronic structure, photocatalysis mechanism and highly enhanced activity. Applied Catalysis B: Environmental, 2020, 262, 118281.	20.5	232
17	An atomic insight into BiOBr/La₂Ti₂O₇ pâ€“n heterojunctions: interfacial charge transfer pathway and photocatalysis mechanism. Catalysis Science and Technology, 2020, 10, 826-834.	4.0	45
18	Bi metal prevents the deactivation of oxygen vacancies in Bi2O2CO3 for stable and efficient photocatalytic NO abatement. Applied Catalysis B: Environmental, 2020, 264, 118545.	20.5	285

#	Article	IF	PR Citations
19	OH/Na co-functionalized carbon nitride: directional charge transfer and enhanced photocatalytic oxidation ability. Catalysis Science and Technology, 2020, 10, 529-535.	4.0	17
20	Biâ€based photocatalysts for <scp>lightâ€driven</scp> environmental and energy applications: Structural tuning, reaction mechanisms, and challenges. EcoMat, 2020, 2, .	11.6	137
21	Rare-Earth Single-Atom Laâ€“N Charge-Transfer Bridge on Carbon Nitride for Highly Efficient and Selective Photocatalytic CO₂ Reduction. ACS Nano, 2020, 14, 15841-15852.	15.3	431
22	Nature-inspired CaCO3 loading TiO2 composites for efficient and durable photocatalytic mineralization of gaseous toluene. Science Bulletin, 2020, 65, 1626-1634.	9.6	82
23	Synergistic Photocatalytic Decomposition of a Volatile Organic Compound Mixture: High Efficiency, Reaction Mechanism, and Long-Term Stability. ACS Catalysis, 2020, 10, 7230-7239.	12.4	136
24	Dual Functions of O-Atoms in the g-C₃N₄/BO_{0.2}N_{0.8} Interface: Oriented Charge Flow In-Plane and Separation within the Interface To Collectively Promote Photocatalytic Molecular Oxygen Activation. ACS Applied Materials & Interfaces, 2020, 12, 34432-34440.	8.0	26
25	Theoretical design and experimental investigation on highly selective Pd particles decorated C3N4 for safe photocatalytic NO purification. Journal of Hazardous Materials, 2020, 392, 122357.	12.5	98
26	SrTiO3/BiOI heterostructure: Interfacial charge separation, enhanced photocatalytic activity, and reaction mechanism. Chinese Journal of Catalysis, 2020, 41, 710-718.	16.4	40
27	The high selectivity for benzoic acid formation on Ca2Sb2O7 enables efficient and stable toluene mineralization. Applied Catalysis B: Environmental, 2020, 271, 118948.	20.5	64
28	Ti3C2 MXene modified g-C3N4 with enhanced visible-light photocatalytic performance for NO purification. Journal of Colloid and Interface Science, 2020, 575, 443-451.	9.9	130
29	Tuning the reaction pathway of photocatalytic NO oxidation process to control the secondary pollution on monodisperse Au nanoparticles@g-C3N4. Chemical Engineering Journal, 2019, 378, 122184.	12.0	81
30	Controlling the secondary pollutant on B-doped g-C₃N₄ during photocatalytic NO removal: a combined DRIFTS and DFT investigation. Catalysis Science and Technology, 2019, 9, 4531-4537.	4.0	24
31	Probing ring-opening pathways for efficient photocatalytic toluene decomposition. Journal of Materials Chemistry A, 2019, 7, 3366-3374.	9.3	203
32	Cu supported on polymeric carbon nitride for selective CO₂ reduction into CH₄: a combined kinetics and thermodynamics investigation. Journal of Materials Chemistry A, 2019, 7, 17014-17021.	9.3	108
33	High-surface energy enables efficient and stable photocatalytic toluene degradationviathe suppression of intermediate byproducts. Catalysis Science and Technology, 2019, 9, 2952-2959.	4.0	35
34	Promoting ring-opening efficiency for suppressing toxic intermediates during photocatalytic toluene degradation via surface oxygen vacancies. Science Bulletin, 2019, 64, 669-678.	9.6	216
35	Ba-vacancy induces semiconductor-like photocatalysis on insulator BaSO4. Applied Catalysis B: Environmental, 2019, 253, 293-299.	20.5	86
36	Promoted reactants activation and charge separation leading to efficient photocatalytic activity on phosphate/potassium co-functionalized carbon nitride. Chinese Chemical Letters, 2019, 30, 875-880.	7.5	37

#	Article	IF	PR Citations
37	Reactant activation and photocatalysis mechanisms on Bi-metal@Bi2GeO5 with oxygen vacancies: A combined experimental and theoretical investigation. Chemical Engineering Journal, 2019, 370, 1366-1375.	12.0	174
38	Light-Induced Generation and Regeneration of Oxygen Vacancies in BiSbO₄for Sustainable Visible Light Photocatalysis. ACS Applied Materials & Interfaces, 2019, 11, 47984-47991.	8.0	76
39	Monolayer Epitaxial Heterostructures for Selective Visibleâ€Lightâ€Driven Photocatalytic NO Oxidation. Advanced Functional Materials, 2019, 29, .	17.0	87
40	An ion-exchange strategy for I-doped BiOCOOH nanoplates with enhanced visible light photocatalytic NOx removal. Pure and Applied Chemistry, 2018, 90, 353-361.	2.0	14
41	Enhancing ROS generation and suppressing toxic intermediate production in photocatalytic NO oxidation on O/Ba co-functionalized amorphous carbon nitride. Applied Catalysis B: Environmental, 2018, 237, 938-946.	20.5	150
42	The Spatially Oriented Charge Flow and Photocatalysis Mechanism on Internal van der Waals Heterostructures Enhanced g-C₃N₄. ACS Catalysis, 2018, 8, 8376-8385.	12.4	250
43	Efficient and stable photocatalytic NO removal on C self-doped g-C₃N₄: electronic structure and reaction mechanism. Catalysis Science and Technology, 2018, 8, 3387-3394.	4.0	70
44	Pt quantum dots deposited on N-doped (BiO)₂CO₃: enhanced visible light photocatalytic NO removal and reaction pathway. Catalysis Science and Technology, 2017, 7, 1324-1332.	4.0	58
45	Directional electron delivery via a vertical channel between g-C₃N₄ layers promotes photocatalytic efficiency. Journal of Materials Chemistry A, 2017, 5, 9358-9364.	9.3	186
46	Highly Efficient Performance and Conversion Pathway of Photocatalytic NO Oxidation on SrO-Clusters@Amorphous Carbon Nitride. Environmental Science & Technology, 2017, 51, 10682-10690.	11.1	236
47	Steering the interlayer energy barrier and charge flow via bioriented transportation channels in g-C3N4: Enhanced photocatalysis and reaction mechanism. Journal of Catalysis, 2017, 352, 351-360.	6.5	193
48	Enhanced Visible Light Photocatalytic Activity of Br-Doped Bismuth Oxide Formate Nanosheets. Molecules, 2015, 20, 19189-19202.	4.3	15
49	In situ growth of Au nanoparticles on 3D Bi₂O₂CO₃ for surface plasmon enhanced visible light photocatalysis. New Journal of Chemistry, 2015, 39, 8446-8453.	2.4	27