

Rajesh K Yadav

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4942934/publications.pdf>

Version: 2024-02-01

42
papers

1,527
citations

516710

16
h-index

315739

38
g-index

45
all docs

45
docs citations

45
times ranked

1713
citing authors

#	ARTICLE	IF	CITATIONS
1	A Photocatalyst-Enzyme Coupled Artificial Photosynthesis System for Solar Energy in Production of Formic Acid from CO ₂ . Journal of the American Chemical Society, 2012, 134, 11455-11461.	13.7	341
2	Highly Selective Solar-Driven Methanol from CO ₂ by a Photocatalyst/Biocatalyst Integrated System. Journal of the American Chemical Society, 2014, 136, 16728-16731.	13.7	194
3	A highly efficient covalent organic framework film photocatalyst for selective solar fuel production from CO ₂ . Journal of Materials Chemistry A, 2016, 4, 9413-9418.	10.3	148
4	Graphene-BODIPY as a photocatalyst in the photocatalytic-biocatalytic coupled system for solar fuel production from CO ₂ . Journal of Materials Chemistry A, 2014, 2, 5068.	10.3	99
5	Ultrafast charge transfer coupled with lattice phonons in two-dimensional covalent organic frameworks. Nature Communications, 2019, 10, 1873.	12.8	93
6	Facile One-Pot Two-Step Synthesis of Novel in Situ Selenium-Doped Carbon Nitride Nanosheet Photocatalysts for Highly Enhanced Solar Fuel Production from CO ₂ . ACS Applied Nano Materials, 2018, 1, 47-54.	5.0	62
7	A solar light-driven, eco-friendly protocol for highly enantioselective synthesis of chiral alcohols via photocatalytic/biocatalytic cascades. Green Chemistry, 2014, 16, 4389.	9.0	59
8	A Photocatalyst/Enzyme Couple That Uses Solar Energy in the Asymmetric Reduction of Acetophenones. Angewandte Chemie - International Edition, 2012, 51, 11624-11628.	13.8	49
9	Functionalized Graphene Quantum Dots as Efficient Visible-Light Photocatalysts for Selective Solar Fuel Production from CO ₂ . ChemCatChem, 2016, 8, 3389-3393.	3.7	49
10	Graphene oxide modified cobalt metallated porphyrin photocatalyst for conversion of formic acid from carbon dioxide. Journal of CO ₂ Utilization, 2018, 27, 107-114.	6.8	37
11	Self-assembled carbon nitride/cobalt (III) porphyrin photocatalyst for mimicking natural photosynthesis. Diamond and Related Materials, 2020, 101, 107648.	3.9	36
12	Eosin-Y and sulfur-codoped g-C ₃ N ₄ composite for photocatalytic applications: the regeneration of NADH/NADPH and the oxidation of sulfide to sulfoxide. Catalysis Science and Technology, 2021, 11, 6401-6410.	4.1	29
13	New Carbon Nanodots-Silica Hybrid Photocatalyst for Highly Selective Solar Fuel Production from CO ₂ . ChemCatChem, 2017, 9, 3153-3159.	3.7	28
14	Highly Improved Solar Energy Harvesting for Fuel Production from CO ₂ by a Newly Designed Graphene Film Photocatalyst. Scientific Reports, 2018, 8, 16741.	3.3	21
15	Rational design of a graphitic carbon nitride catalytic-biocatalytic system as a photocatalytic platform for solar fine chemical production from CO ₂ . Reaction Chemistry and Engineering, 2022, 7, 1566-1572.	3.7	20
16	Self-assembled protein/carbon nitride/sulfur hydrogel photocatalyst for highly selective solar chemical production. Materials Letters, 2020, 259, 126752.	2.6	18
17	Flexible covalent porphyrin framework film: An emerged platform for photocatalytic C-H bond activation. Applied Surface Science, 2021, 544, 148938.	6.1	18
18	Fabrication of Graphitic Carbon Nitride-Based Film: An Emerged Highly Efficient Catalyst for Direct C-H Arylation under Solar Light. Chinese Journal of Chemistry, 2021, 39, 633-639.	4.9	17

#	ARTICLE	IF	CITATIONS
19	Anthracene-based $g-C_3N_4$ photocatalyst for regeneration of NAD(P)H and sulfide oxidation based on Z-scheme nature. International Journal of Energy Research, 2021, 45, 13117-13129.	4.5	17
20	Efficient photocatalytic synthesis of l-glutamate using a self-assembled carbon nitride/sulfur/porphyrin catalyst. Environmental Chemistry Letters, 2020, 18, 1389-1395.	16.2	15
21	Thermodynamic studies of molar volume, pair and triplet interactions at increasing side-chain length of l-amino acids in aqueous potassium chloride solutions at different concentration and 310.15K. Journal of Molecular Liquids, 2007, 135, 188-191.	4.9	13
22	In Situ Prepared Flexible 3D Polymer Film Photocatalyst for Highly Selective Solar Fuel Production from CO_2 . ChemCatChem, 2018, 10, 2024-2029.	3.7	13
23	Highly efficient perylene-based polymer photocatalyst/biocatalyst systems for l-glutamate production under solar light. Bulletin of Materials Science, 2020, 43, 1.	1.7	11
24	In Situ Prepared NRCPFs as Highly Active Photo Platforms for in Situ Bond Formation Between Aryldiazonium Salts and Heteroarenes. Photochemistry and Photobiology, 2022, 98, 748-753.	2.5	11
25	Covalent Triazine Framework as an Efficient Photocatalyst for Regeneration of NAD(P)H and Selective Oxidation of Organic Sulfide. Photochemistry and Photobiology, 2022, 98, 150-159.	2.5	10
26	One-Pot Highly Efficient Synthesis of N-Enrich Graphene Quantum Dots as a Photocatalytic Platform for NAD ⁺ /NADP ⁺ Reduction. Photochemistry and Photobiology, 2021, 97, 1498-1506.	2.5	9
27	Highly Efficient Flower-Like Graphene Quantum Dots-Based Fuschin Photocatalyst for Selective NAD(P)H Cofactor Regeneration Under Solar Light Irradiation. Photochemistry and Photobiology, 2022, 98, 412-420.	2.5	9
28	Ultra-efficient synthesis of bamboo-shape porphyrin framework for photocatalytic CO ₂ reduction and consecutive C-S/C-N bonds formation. Journal of CO ₂ Utilization, 2022, 59, 101968.	6.8	7
29	Synthesis of highly efficient selenium oxide hybridized g-C ₃ N ₄ photocatalyst for NADH/NADPH regeneration to facilitate solar-to-chemical reaction. Main Group Chemistry, 2022, 21, 1077-1089.	0.8	6
30	A functionalized ruthenium-graphene nanosheet photocatalyst for highly regioselective visible light driven C-H arylation of imidazo-pyrimidines. Sustainable Energy and Fuels, 2019, 3, 3324-3328.	4.9	5
31	Solar light active flexible activated carbon cloth-based photocatalyst for Markovnikov-selective radical-radical cross-coupling of <i>S</i> -nucleophiles to terminal alkyne and liquefied petroleum gas sensing. Journal of the Chinese Chemical Society, 2021, 68, 1435-1444.	1.4	5
32	Chitosan-based fluorescein isothiocyanate film as a highly efficient metal-free photocatalyst for solar-light-mediated direct C-H arylation. International Journal of Energy Research, 2021, 45, 5964-5973.	4.5	4
33	In Situ Prepared Solar Light-Driven Flexible Actuated Carbon Cloth-Based Nanorod Photocatalyst for Selective Radical-Radical Coupling to Vinyl Sulfides. Photochemistry and Photobiology, 2021, 97, 955-962.	2.5	4
34	Experimental and theoretical observations of alkylated EOSIN based α -turn-on-superoxide sensor as well as its anti-microbial study. Main Group Chemistry, 2021, 20, 623-632.	0.8	4
35	Viscometric studies of molecular interactions of nicotine in aqueous and aqueous ethanol at 298.15, 303.15 and 308.15 K. Physics and Chemistry of Liquids, 2007, 45, 215-220.	1.2	3
36	Preparation, structural elucidation, molecular weight determination, and molecular recognition of first- and second-tier dendrimer molecules. Journal of Applied Polymer Science, 2008, 110, 2601-2614.	2.6	3

#	ARTICLE	IF	CITATIONS
37	In-situ Prepared 2D Covalent Organic Framework as a Photocatalyst in the Photocatalytic-Biocatalytic Attached System for Highly Selective L-Glutamate Production under Solar Light. <i>Advanced Materials Letters</i> , 2020, 11, 1-4.	0.6	3
38	Fluorescein dye derivative: Synthesis, characterization, quantum chemical and promising antimicrobial activity studies. <i>Journal of Heterocyclic Chemistry</i> , 2021, 58, 2381-2389.	2.6	2
39	Greener One-Step Synthesis of Novel In Situ Selenium-Doped Framework Photocatalyst by Melem and Perylene Dianhydride for Enhanced Solar Fuel Production from CO ₂ . <i>Photochemistry and Photobiology</i> , 2022, 98, 998-1007.	2.5	2
40	In-situ Prepared Flexible 3D Polymer Film Photocatalyst for Highly Selective Solar Fuel Production from CO ₂ . <i>ChemCatChem</i> , 2018, 10, 1928-1928.	3.7	1
41	Enhancing Disinfection of Contaminated Natural Water Using 40%kHz Frequency Cavitation Reactor. <i>Environmental Engineering Science</i> , 0, , .	1.6	1
42	Photocatalytic activity of ultrathin 2DPNs for enzymatically generating formic acid from CO ₂ and C-S/N bond formation. <i>Sustainable Energy and Fuels</i> , 0, , .	4.9	1