

# Nageswara Rao Peela

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,364  
citations

331259

21  
h-index

344852

36  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1472  
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic co-pyrolysis of wet-torrefied bamboo sawdust and plastic over the zeolite HY: Synergism and kinetics. <i>Journal of the Energy Institute</i> , 2022, 100, 76-88.	2.7	5
2	Optofluidic microreactor for the photocatalytic water splitting to produce green hydrogen. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 2152-2163.	3.8	8
3	Thermal plasma gasification of organic waste stream coupled with CO <sub>2</sub> -sorption enhanced reforming employing different sorbents for enhanced hydrogen production. <i>RSC Advances</i> , 2022, 12, 6122-6132.	1.7	21
4	Unraveling high alkene selectivity at full conversion in alkyne hydrogenation over Ni under continuous flow conditions. <i>Catalysis Science and Technology</i> , 2022, 12, 5265-5273.	2.1	3
5	Wet torrefaction of bamboo saw dust and its co-pyrolysis with plastic. <i>Fuel</i> , 2021, 285, 119188.	3.4	31
6	Novel One-Step Process for the Production of Levulinic Acid from Furfural over Hierarchical Zeolites in a Microwave Reactor. <i>Advanced Sustainable Systems</i> , 2021, 5, .	2.7	5
7	Hollow cuboidal MnCo <sub>2</sub> O <sub>4</sub> coupled with nickel phosphate: a promising oxygen evolution reaction electrocatalyst. <i>Chemical Communications</i> , 2021, 57, 8027-8030.	2.2	11
8	Rapid synthesis of hierarchical ZSM-5 zeolites for the reactions involving larger reactant molecules. <i>Advanced Powder Technology</i> , 2021, 32, 1033-1046.	2.0	10
9	Synergistic Effect of Metal Complex and Dual Doped Graphitic Carbon Nitride for Superior Photocatalytic Hydrogen Evolution. <i>Energy &amp; Fuels</i> , 2021, 35, 15223-15233.	2.5	17
10	Silver grafted graphitic-carbon nitride ternary hetero-junction Ag/gC <sub>3</sub> N <sub>4</sub> (Urea)-gC <sub>3</sub> N <sub>4</sub> (Thiourea) with efficient charge transfer for enhanced visible-light photocatalytic green H <sub>2</sub> production. <i>Applied Surface Science</i> , 2021, 558, 149900.	3.1	54
11	Step-Scheme Heterojunction between CdS Nanowires and Facet-Selective Assembly of MnO <sub>x</sub> -BiVO <sub>4</sub> for an Efficient Visible-Light-Driven Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 45475-45487.	4.0	36
12	Synthesis of Cu <sub>2</sub> O NPs using bioanalytes present in <i>Sechium edule</i> : Mechanistic insights and application in electrocatalytic CO <sub>2</sub> reduction to formate. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 51, 101622.	3.3	10
13	Catalytic co-pyrolysis of wet-torrefied bamboo sawdust and plastic over the zeolite H-ZSM-5: Synergistic effects and kinetics. <i>Renewable Energy</i> , 2021, 178, 608-619.	4.3	21
14	Experimental Insights into the Coupling of Methane Combustion and Steam Reforming in a Catalytic Plate Reactor in Transient Mode. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 196-209.	1.8	15
15	Green Hydrogen Production in an Optofluidic Planar Microreactor via Photocatalytic Water Splitting under Visible/Simulated Sunlight Irradiation. <i>Energy &amp; Fuels</i> , 2021, 35, 19737-19747.	2.5	7
16	Co-pyrolysis of bamboo sawdust and plastic: Synergistic effects and kinetics. <i>Renewable Energy</i> , 2020, 149, 1133-1145.	4.3	110
17	Ag-doped TiO <sub>2</sub> photocatalysts with effective charge transfer for highly efficient hydrogen production through water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2729-2744.	3.8	175
18	Enhanced photocatalytic hydrogen evolution using green carbon quantum dots modified 1-D CdS nanowires under visible light irradiation. <i>Solar Energy</i> , 2020, 208, 966-977.	2.9	41

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19	1-Butyl-3-methylimidazolium bromide functionalized zeolites: nature of interactions and catalytic activity for carbohydrate conversion to platform chemicals. Reaction Chemistry and Engineering, 2020, 5, 1738-1750.	1.9	9
20	Surface and photocatalytic properties of TiO <sub>2</sub> thin films prepared by non-aqueous surfactant assisted sol-gel method. Journal of Environmental Chemical Engineering, 2020, 8, 104267.	3.3	15
21	Surface-engineering of decahedron shaped bismuth vanadate for improved photoelectrochemical water oxidation by indium doping coupled with graphitic carbon nitride quantum dots. Journal of Power Sources, 2020, 477, 229024.	4.0	14
22	Effect of Catalytically Silent Cerium Hydroxide in Cobalt-Cerium Mixed Double Hydroxide for Enhanced Water Oxidation Kinetics in a BiVO <sub>4</sub> Photoanode. ACS Applied Energy Materials, 2020, 3, 5610-5619.	2.5	10
23	Bio-template assisted hierarchical ZnO superstructures coupled with graphene quantum dots for enhanced water oxidation kinetics. Solar Energy, 2020, 199, 39-46.	2.9	13
24	Low Overpotential and Stable Electrocatalytic Oxygen Evolution Reaction Utilizing Doped Perovskite Oxide, La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> , Modified by Cobalt Phosphate. ACS Applied Energy Materials, 2020, 3, 1279-1285.	2.5	29
25	Hexagonal Boron Nitride Quantum Dots as a Superior Hole Extractor for Efficient Charge Separation in WO <sub>3</sub> -Based Photoelectrochemical Water Oxidation. ACS Applied Energy Materials, 2019, 2, 7457-7466.	2.5	37
26	Synthesized hierarchical mordenite zeolites for the biomass conversion to levulinic acid and the mechanistic insights into humins formation. Microporous and Mesoporous Materials, 2019, 287, 18-28.	2.2	41
27	Reduced graphene oxide modified CuBi <sub>2</sub> O <sub>4</sub> as an efficient and noble metal free photocathode for superior photoelectrochemical hydrogen production. Sustainable Energy and Fuels, 2019, 3, 1554-1561.	2.5	40
28	Choline chloride functionalized zeolites for the conversion of biomass derivatives to 5-hydroxymethylfurfural. Applied Catalysis A: General, 2019, 580, 59-70.	2.2	23
29	Design of noble metal free hierarchical VS <sub>2</sub> onto WO <sub>3</sub> nanoflakes as an effective heterojunction strategy for enhanced photoelectrochemical water oxidation. Sustainable Energy and Fuels, 2019, 3, 3481-3488.	2.5	4
30	Seed-assisted and OSDA-free synthesis of H-mordenite zeolites for efficient production of 5-hydroxymethylfurfural from glucose. Microporous and Mesoporous Materials, 2019, 279, 211-219.	2.2	28
31	Hybridization of Pd Nanoparticles with UiO-66(Hf) Metal-Organic Framework and the Effect of Nanostructure on the Catalytic Properties. Chemistry - A European Journal, 2018, 24, 15978-15982.	1.7	48
32	Advancement in Development of Biodiesel Production in the Last Two Decades: An Indian Overview on Raw Materials, Synthesis, By-products, and Application. , 2017, , 167-188.		1
33	Ionic Liquid-Encapsulated Zeolite Catalysts for the Conversion of Glucose to 5-Hydroxymethylfurfural. ChemistrySelect, 2017, 2, 10379-10386.	0.7	17
34	Microstructured Reactors for Hydrogen Production from Ethanol. Springer Tracts in Mechanical Engineering, 2015, , 309-334.	0.1	0
35	Microkinetic Modeling of Ethane Total Oxidation on Pt. Industrial & Engineering Chemistry Research, 2014, 53, 10051-10058.	1.8	19
36	Development of a microfuel processor: oxidative steam reforming of ethanol and water-gas shift reaction on noble metal catalysts in a microreactor. International Journal of Environmental Engineering, 2014, 6, 78.	0.1	2

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37	Core-Shell Nanocatalyst Design by Combining High-Throughput Experiments and First-Principles Simulations. <i>ChemCatChem</i> , 2013, 5, 3712-3718.	1.8	8
38	Design and Fabrication of a High-Throughput Microreactor and Its Evaluation for Highly Exothermic Reactions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 16270-16277.	1.8	7
39	Steam Reforming of Ethanol in a Microchannel Reactor: Kinetic Study and Reactor Simulation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 12881-12894.	1.8	30
40	Steam reforming of ethanol over Rh/CeO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts in a microchannel reactor. <i>Chemical Engineering Journal</i> , 2011, 167, 578-587.	6.6	52
41	Oxidative steam reforming of ethanol over Rh based catalysts in a micro-channel reactor. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3384-3396.	3.8	66
42	Distributed hydrogen production from ethanol in a microfuel processor: Issues and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 524-533.	8.2	40
43	Washcoating of $\gamma$ -alumina on stainless steel microchannels. <i>Catalysis Today</i> , 2009, 147, S17-S23.	2.2	59
44	Fabrication of microchannels on stainless steel by wet chemical etching. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, N99-N106.	1.5	77
45	Thermal cracking of JP-10: Kinetics and product distribution. <i>Journal of Analytical and Applied Pyrolysis</i> , 2006, 76, 154-160.	2.6	92
46	Levulinic acid production from furfural: process development and techno-economics. <i>Green Chemistry</i> , 0, , .	4.6	3