

Kamalakannan Kailasam

List of Publications by Year in descending order

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65
papers

3,780
citations

147726

31
h-index

123376

61
g-index

68
all docs

68
docs citations

68
times ranked

5424
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous carbon nitride-silica composites by a combined sol-gel/thermal condensation approach and their application as photocatalysts. <i>Energy and Environmental Science</i> , 2011, 4, 4668.	15.6	239
2	Covalent Triazine Frameworks as Heterogeneous Catalysts for the Synthesis of Cyclic and Linear Carbonates from Carbon Dioxide and Epoxides. <i>ChemSusChem</i> , 2012, 5, 1793-1799.	3.6	237
3	Merging Single-Atom-Dispersed Silver and Carbon Nitride to a Joint Electronic System via Copolymerization with Silver Tricyanomethanide. <i>ACS Nano</i> , 2016, 10, 3166-3175.	7.3	213
4	Supported Cobalt Oxide Nanoparticles As Catalyst for Aerobic Oxidation of Alcohols in Liquid Phase. <i>ACS Catalysis</i> , 2011, 1, 342-347.	5.5	184
5	Complementing Graphenes: 1D Interplanar Charge Transport in Polymeric Graphitic Carbon Nitrides. <i>Advanced Materials</i> , 2015, 27, 7993-7999.	11.1	153
6	Nickel as a co-catalyst for photocatalytic hydrogen evolution on graphitic-carbon nitride (sg-CN): what is the nature of the active species?. <i>Chemical Communications</i> , 2016, 52, 104-107.	2.2	147
7	Room Temperature Synthesis of Heptazine-Based Microporous Polymer Networks as Photocatalysts for Hydrogen Evolution. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1008-1013.	2.0	134
8	Traversing the history of solid catalysts for heterogeneous synthesis of 5-hydroxymethylfurfural from carbohydrate sugars: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 2408-2425.	8.2	127
9	An excellent humidity sensor based on In ₂ SnO ₂ loaded mesoporous graphitic carbon nitride. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14134-14143.	5.2	120
10	A porous, crystalline truxene-based covalent organic framework and its application in humidity sensing. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21820-21827.	5.2	115
11	Adsorption removal of organic dyes on covalent triazine framework (CTF). <i>Microporous and Mesoporous Materials</i> , 2014, 187, 63-70.	2.2	111
12	Cubic mesoporous Ag@CN: a high performance humidity sensor. <i>Nanoscale</i> , 2016, 8, 19794-19803.	2.8	109
13	Structure-Activity Relationships in Bulk Polymeric and Sol-Gel-Derived Carbon Nitrides during Photocatalytic Hydrogen Production. <i>Chemistry of Materials</i> , 2014, 26, 1727-1733.	3.2	108
14	Natural Sunlight Driven Oxidative Homocoupling of Amines by a Truxene-Based Conjugated Microporous Polymer. <i>ACS Catalysis</i> , 2018, 8, 6751-6759.	5.5	106
15	Donor-Acceptor-Type Heptazine-Based Polymer Networks for Photocatalytic Hydrogen Evolution. <i>Energy Technology</i> , 2016, 4, 744-750.	1.8	102
16	Mesoporous Carbon Nitride-Tungsten Oxide Composites for Enhanced Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2015, 8, 1404-1410.	3.6	98
17	Visible light-driven simultaneous H ₂ production by water splitting coupled with selective oxidation of HMF to DFF catalyzed by porous carbon nitride. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5643-5649.	5.2	92
18	Mesoporous Melamine Resins by Soft Templating of Block-co-Polymer Mesophases. <i>Chemistry of Materials</i> , 2010, 22, 428-434.	3.2	90

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19	Using nickel manganese oxide catalysts for efficient water oxidation. Chemical Communications, 2015, 51, 5005-5008.	2.2	89
20	A low temperature, highly sensitive and fast response toluene gas sensor based on In(III)-SnO ₂ loaded cubic mesoporous graphitic carbon nitride. Sensors and Actuators B: Chemical, 2018, 255, 3564-3575.	4.0	85
21	Quantification of photocatalytic hydrogen evolution. Physical Chemistry Chemical Physics, 2013, 15, 3466.	1.3	80
22	Near-Room-Temperature Ethanol Detection Using Ag-Loaded Mesoporous Carbon Nitrides. ACS Omega, 2017, 2, 3658-3668.	1.6	75
23	Metal-free visible light photocatalytic carbon nitride quantum dots as efficient antibacterial agents: An insight study. Carbon, 2019, 152, 587-597.	5.4	71
24	Insights into g-C ₃ N ₄ as a chemi-resistive gas sensor for VOCs and humidity – a review of the state of the art and recent advancements. Journal of Materials Chemistry A, 2021, 9, 10612-10651.	5.2	65
25	High-Surface-Area SBA-15 with Enhanced Mesopore Connectivity by the Addition of Poly(vinyl alcohol). Chemistry of Materials, 2011, 23, 2062-2067.	3.2	63
26	Heptazine based organic framework as a chemiresistive sensor for ammonia detection at room temperature. Journal of Materials Chemistry A, 2018, 6, 18389-18395.	5.2	61
27	Organic motif's functionalization via covalent linkage in carbon nitride: An exemplification in photocatalysis. Carbon, 2019, 152, 40-58.	5.4	54
28	A true oxygen-linked heptazine based polymer for efficient hydrogen evolution. Applied Catalysis B: Environmental, 2019, 244, 313-319.	10.8	54
29	Recent developments in biomass derived cellulose aerogel materials for thermal insulation application: a review. Cellulose, 2022, 29, 4805-4833.	2.4	39
30	Controlling hydrogenation selectivity with Pd catalysts on carbon nitrides functionalized silica. Journal of Catalysis, 2015, 326, 38-42.	3.1	36
31	Synthesis of efficient photocatalysts for water oxidation and dye degradation reactions using CoCl ₂ eutectics. Journal of Materials Chemistry A, 2015, 3, 21227-21232.	5.2	36
32	Synergistic effect of a noble metal free Ni(OH) ₂ co-catalyst and a ternary ZnIn ₂ S ₄ /g-C ₃ N ₄ heterojunction for enhanced visible light photocatalytic hydrogen evolution. Sustainable Energy and Fuels, 2020, 4, 750-759.	2.5	34
33	Physico-chemical characterization of MCM-41 silica spheres made by the pseudomorphic route and grafted with octadecyl chains. Journal of Chromatography A, 2008, 1191, 125-135.	1.8	31
34	Emergence of <i>s</i> -heptazines: from trichloro- <i>s</i> -heptazine building blocks to functional materials. Journal of Materials Chemistry A, 2018, 6, 21719-21728.	5.2	30
35	Hydrogen-bond mediated columnar liquid crystalline assemblies of <i>C</i> ₃ -symmetric heptazine derivatives at ambient temperature. Soft Matter, 2018, 14, 6342-6352.	1.2	30
36	Single molecular precursors for C _x N _y materials- Blending of carbon and nitrogen beyond g-C ₃ N ₄ . Carbon, 2021, 183, 332-354.	5.4	30

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37	Heptazine: an Electron-Deficient Fluorescent Core for Discotic Liquid Crystals. <i>Chemistry - A European Journal</i> , 2017, 23, 14718-14722.	1.7	29
38	Deep-Blue OLED Fabrication from Heptazine Columnar Liquid Crystal Based Al-Active Sky-Blue Emitter. <i>ChemistrySelect</i> , 2018, 3, 7771-7777.	0.7	27
39	Octadecyl grafted MCM-41 silica spheres using trifunctional silane precursors – preparation and characterization. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 136-147.	2.2	22
40	High-performing D- and A- benzothiadiazole-based hybrid local and charge-transfer emitters in solution-processed OLEDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 17009-17015.	2.7	19
41	Magnetic and Photocatalytic Curcumin Bound Carbon Nitride Nanohybrids for Enhanced Glioma Cell Death. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6590-6601.	2.6	18
42	Oxygen Deficient WO ₃ Nanorods and g-CN Nanosheets Heterojunctions: A 1D-2D Interface with Engineered Band Structure for Cyclohexanol Oxidation in Visible Light. <i>ACS Applied Energy Materials</i> , 2020, 3, 4669-4676.	2.5	18
43	Designing nanofibrillar cellulose peptide conjugated polymeric hydrogel scaffold for controlling cellular behaviour. <i>Cellulose</i> , 2021, 28, 10335-10357.	2.4	16
44	Photocatalytic integrated production of hydrogen and imines from aromatic amines via Ni-mesoporous carbon nitride: An acceptorless dehydrogenative pathway. <i>Journal of Cleaner Production</i> , 2021, 307, 127162.	4.6	14
45	A metal-free heptazine-porphyrin based porous polymeric network as an artificial leaf for carbon-free solar fuels. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14568-14575.	5.2	14
46	XPS studies on dispersed and immobilised carbon nitrides used for dye degradation. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1833-1839.	1.6	13
47	Photocatalytic valorization of furfural to value-added chemicals via mesoporous carbon nitride: a possibility through a metal-free pathway. <i>Catalysis Science and Technology</i> , 2022, 12, 144-153.	2.1	13
48	Fourier transform infrared spectroscopy and solid-state nuclear magnetic resonance studies of octadecyl modified metal oxides obtained from different silane precursors. <i>Journal of Chromatography A</i> , 2009, 1216, 2345-2354.	1.8	12
49	Ru quantum dots decorated graphitic carbon nitride (Ru-QDs@g-CN) for chemi-resistive sensing of 3-methyl-1-butanol at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2022, 368, 132060.	4.0	12
50	Quantum dot-sensitized O-linked heptazine polymer photocatalyst for the metal-free visible light hydrogen generation. <i>RSC Advances</i> , 2020, 10, 29633-29641.	1.7	10
51	A Tailored Heptazine-Based Porous Polymeric Network as a Versatile Heterogeneous (Photo)catalyst. <i>Chemistry - A European Journal</i> , 2021, 27, 10649-10656.	1.7	9
52	Solar driven photocatalytic hydrogen evolution using graphitic-carbon nitride/NSGQDs heterostructures. <i>Applied Surface Science</i> , 2021, 563, 150409.	3.1	9
53	Nontoxic Metal-Free Visible Light-Responsive Carbon Nitride Quantum Dots Cause Oxidative Stress and Cancer-Specific Membrane Damage. <i>ACS Applied Bio Materials</i> , 2022, 5, 1169-1178.	2.3	9
54	A critical review on emerging photocatalysts for syngas generation CO ₂ reduction under aqueous media: a sustainable paradigm. <i>Materials Advances</i> , 2022, 3, 5274-5298.	2.6	9

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55	S,Nâ€GQDs Enzyme Mimicked Electrochemical Sensor to Detect the Hazardous Level of Monocrotophos in Water. <i>Electroanalysis</i> , 2020, 32, 971-977.	1.5	8
56	Metal-Free Heptazine-Based Porous Polymeric Network as Highly Efficient Catalyst for CO ₂ Capture and Conversion. <i>Frontiers in Chemistry</i> , 2021, 9, 737511.	1.8	8
57	Understanding the role of soft linkers in designing heptazine-based polymeric frameworks as heterogeneous (photo)catalyst. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 138-146.	5.0	7
58	A metal-free mesoporous g-C ₃ N ₄ nanosheets for selective and sensitive recognition of ethanol at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021, 349, 130828.	4.0	7
59	Alkyl chain grafting on silicaâ€zirconia mixed oxides: preparation and characterization. <i>Journal of Materials Chemistry</i> , 2010, 20, 2345.	6.7	5
60	Nontoxic In Vivo Clearable Nanoparticle Clusters for Theranostic Applications. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2053-2065.	2.6	5
61	Development of a Reactor for Standardized Quantification of the Photocatalytic Hydrogen Production. <i>Chemie-Ingenieur-Technik</i> , 2013, 85, 500-507.	0.4	4
62	Solvents effects on the conformational order of triacontyl modified silica gels as evaluated by Fourier transform infrared spectroscopy. <i>Journal of Chromatography A</i> , 2006, 1134, 81-87.	1.8	3
63	Graphene: Complementing Graphenes: 1D Interplanar Charge Transport in Polymeric Graphitic Carbon Nitrides (<i>Adv. Mater.</i> 48/2015). <i>Advanced Materials</i> , 2015, 27, 7992-7992.	11.1	3
64	A Light(er) Approach for the Selective Hydrogenation of 5â€Hydroxymethylfurfural to 2,5â€Bis(hydroxymethyl)furan without External H ₂ . <i>ChemSusChem</i> , 2022, 15, .	3.6	2
65	Biodegradable Protein-Stabilized Inorganic Nanoassemblies for Photothermal Radiotherapy of Hepatoma Cells. <i>ACS Omega</i> , 2022, 7, 8928-8937.	1.6	1