

Vijay K Tomer

List of Publications by Year in descending order

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59
papers

3,283
citations

117453

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161609

54
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66
all docs

66
docs citations

66
times ranked

3036
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional graphitic carbon (IV) nitride: A versatile sensing material. Coordination Chemistry Reviews, 2022, 466, 214611.	9.5	22
2	Carbon nitride-based optical sensors for metal ion detection. , 2022, , 245-259.		0
3	Solar energy harvesting with carbon nitrides. , 2022, , 81-107.		0
4	State-of-the-art review of morphological advancements in graphitic carbon nitride (g-CN) for sustainable hydrogen production. Renewable and Sustainable Energy Reviews, 2021, 135, 110235.	8.2	114
5	Advances in the designs and mechanisms of MoO ₃ nanostructures for gas sensors: a holistic review. Materials Advances, 2021, 2, 4190-4227.	2.6	52
6	Nanosensors for monitoring indoor pollution in smart cities. , 2020, , 251-266.		9
7	Functional gas sensing nanomaterials: A panoramic view. Applied Physics Reviews, 2020, 7, .	5.5	295
8	Hybridized Graphitic Carbon Nitride (g-CN) as High Performance VOCs Sensor. Materials Horizons, 2020, , 285-302.	0.3	7
9	Recent Advances on UV-Enhanced Oxide Nanostructures Gas Sensors. Materials Horizons, 2020, , 143-159.	0.3	3
10	One pot hydrothermal synthesis of ordered mesoporous SnO ₂ /SBA-16 nanocomposites. Journal of Porous Materials, 2019, 26, 553-560.	1.3	13
11	Superior visible light photocatalysis and low-operating temperature VOCs sensor using cubic Ag(O)-MoS ₂ loaded g-CN 3D porous hybrid. Applied Materials Today, 2019, 16, 193-203.	2.3	50
12	Silver Doped Graphitic Carbon Nitride for the Enhanced Photocatalytic Activity Towards Organic Dyes. Journal of Nanoscience and Nanotechnology, 2019, 19, 5241-5248.	0.9	55
13	<i>A Special Section on</i> Applications of 2D/3D Materials in Sensing and Photocatalysis. Journal of Nanoscience and Nanotechnology, 2019, 19, 5052-5053.	0.9	18
14	Aero-gel based CeO ₂ nanoparticles: synthesis, structural properties and detailed humidity sensing response. Journal of Materials Chemistry C, 2019, 7, 5477-5487.	2.7	62
15	Photocatalytic Activity of Green Synthesized AgCl Nanoparticles Towards <i>E. coli</i> Bacteria. Journal of Nanoscience and Nanotechnology, 2019, 19, 5249-5255.	0.9	26
16	Hybridized Graphene for Chemical Sensing. , 2019, , 323-338.		14
17	Humidity Sensing Properties of Ag ⁰ Nanoparticles Supported on WO ₃ •SiO ₂ with Super Rapid Response and Excellent Stability. European Journal of Inorganic Chemistry, 2019, 2019, 4862-4862.	1.0	1
18	Nanotechnology Based Solutions for Wastewater Treatment. , 2019, , 337-368.		38

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19	Noble Metalsâ€™Metal Oxide Mesoporous Nanohybrids in Humidity and Gas Sensing Applications. , 2019, , 283-302.		11
20	<i>A Special Issue</i> on Functional Nanomaterials for Sensor Applications. Sensor Letters, 2019, 17, 177-179.	0.4	1
21	Aero-gel assisted synthesis of anatase TiO ₂ nanoparticles for humidity sensing application. Dalton Transactions, 2018, 47, 6293-6298.	1.6	26
22	Humidity sensing behavior of tin-loaded 3-D cubic mesoporous silica. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 101, 284-293.	1.3	21
23	Cubic mesoporous Pdâ€™WO ₃ loaded graphitic carbon nitride (g-CN) nanohybrids: highly sensitive and temperature dependent VOC sensors. Journal of Materials Chemistry A, 2018, 6, 10718-10730.	5.2	145
24	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
25	Auâ€™TiO ₂ -Loaded Cubic g-C ₃ N ₄ Nanohybrids for Photocatalytic and Volatile Organic Amine Sensing Applications. ACS Applied Materials & Interfaces, 2018, 10, 34087-34097.	4.0	132
26	A porous, crystalline truxene-based covalent organic framework and its application in humidity sensing. Journal of Materials Chemistry A, 2017, 5, 21820-21827.	5.2	115
27	Near-Room-Temperature Ethanol Detection Using Ag-Loaded Mesoporous Carbon Nitrides. ACS Omega, 2017, 2, 3658-3668.	1.6	75
28	Rapid acetone detection using indium loaded WO ₃ /SnO ₂ nanohybrid sensor. Sensors and Actuators B: Chemical, 2017, 253, 703-713.	4.0	112
29	Ordered mesoporous In-(TiO ₂ /WO ₃) nanohybrid: An ultrasensitive n -butanol sensor. Sensors and Actuators B: Chemical, 2017, 239, 364-373.	4.0	90
30	An excellent humidity sensor based on Inâ€™SnO ₂ loaded mesoporous graphitic carbon nitride. Journal of Materials Chemistry A, 2017, 5, 14134-14143.	5.2	120
31	Facile Preparation of TiO ₂ -SnO ₂ Catalysts using TiO ₂ as an Auxiliary for Gas Sensing and Advanced Oxidation Processes. MRS Advances, 2016, 1, 3157-3162.	0.5	16
32	Visible light-driven mesoporous Auâ€™TiO ₂ /SiO ₂ photocatalysts for advanced oxidation process. Ceramics International, 2016, 42, 10892-10901.	2.3	57
33	Facile Synthesis of Hybridized Mesoporous Au@TiO ₂ /SnO ₂ as Efficient Photocatalyst and Selective VOC Sensor. ChemistrySelect, 2016, 1, 3247-3258.	0.7	40
34	Cubic mesoporous Ag@CN: a high performance humidity sensor. Nanoscale, 2016, 8, 19794-19803.	2.8	109
35	Improved antimicrobial property and controlled drug release kinetics of silver sulfadiazine loaded ordered mesoporous silica. Journal of Asian Ceramic Societies, 2016, 4, 282-288.	1.0	20
36	Influence of functionalization type on controlled release of emodin from mesoporous silica. Journal of Porous Materials, 2016, 23, 1047-1057.	1.3	11

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37	In-vitro drug release kinetics studies of mesoporous SBA-15-azathioprine composite. Journal of Porous Materials, 2016, 23, 679-688.	1.3	35
38	Highly sensitive and selective volatile organic amine (VOA) sensors using mesoporous WO ₃ –SnO ₂ nanohybrids. Sensors and Actuators B: Chemical, 2016, 229, 321-330.	4.0	87
39	Nano gold supported on ordered mesoporous WO ₃ /SBA-15 hybrid nanocomposite for oxidative decolorization of azo dye. Microporous and Mesoporous Materials, 2016, 225, 245-254.	2.2	56
40	Ordered mesoporous Ag-doped TiO ₂ /SnO ₂ nanocomposite based highly sensitive and selective VOC sensors. Journal of Materials Chemistry A, 2016, 4, 1033-1043.	5.2	215
41	A facile nanocasting synthesis of mesoporous Ag-doped SnO ₂ nanostructures with enhanced humidity sensing performance. Sensors and Actuators B: Chemical, 2016, 223, 750-760.	4.0	130
42	Fast response with high performance humidity sensing of Ag–SnO ₂ /SBA-15 nanohybrid sensors. Microporous and Mesoporous Materials, 2016, 219, 240-248.	2.2	58
43	Lanthanide Ions Doped-SnO ₂ ; : A Stable and Efficient Photocatalyst for Dye Decontamination. Energy and Environment Focus, 2016, 5, 35-42.	0.3	15
44	Nanostructured WO ₃ /SnO ₂ and TiO ₂ /SnO ₂ Heterojunction with Enhanced Photocatalytic Performance. Energy and Environment Focus, 2016, 5, 108-115.	0.3	11
45	Enhanced Relative Humidity Sensing Performance Using TiO ₂ Loaded SiO ₂ Nanocomposite. Energy and Environment Focus, 2016, 5, 234-239.	0.3	11
46	Humidity Sensing Properties of Ag ⁰ Nanoparticles Supported on WO ₃ –SiO ₂ with Super Rapid Response and Excellent Stability. European Journal of Inorganic Chemistry, 2015, 2015, 5232-5240.	1.0	31
47	A Novel Highly Sensitive Humidity Sensor Based on ZnO/SBA-15 Hybrid Nanocomposite. Journal of the American Ceramic Society, 2015, 98, 3719-3725.	1.9	47
48	Nano titania loaded mesoporous silica: Preparation and application as high performance humidity sensor. Sensors and Actuators B: Chemical, 2015, 220, 192-200.	4.0	66
49	Mn-Loaded Mesoporous Silica Nanocomposite: A Highly Efficient Humidity Sensor. Journal of the American Ceramic Society, 2015, 98, 741-747.	1.9	54
50	Highly sensitive and stable relative humidity sensors based on WO ₃ modified mesoporous silica. Applied Physics Letters, 2015, 106, .	1.5	58
51	In-situ synthesis of SnO ₂ /SBA-15 hybrid nanocomposite as highly efficient humidity sensor. Sensors and Actuators B: Chemical, 2015, 212, 517-525.	4.0	57
52	One pot synthesis of mesoporous ZnO–SiO ₂ nanocomposite as high performance humidity sensor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 483, 121-128.	2.3	64
53	Surfactant assisted hydrothermal synthesis of porous 3-D hierarchical SnO ₂ nanoflowers for photocatalytic degradation of Rose Bengal. Materials Letters, 2015, 154, 124-127.	1.3	48
54	One-Pot Hydrothermal Synthesis of Porous SnO ₂ Nanostructures for Photocatalytic Degradation of Organic Pollutants. Energy and Environment Focus, 2015, 4, 340-345.	0.3	39

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55	Effect of in-situ loading of nano titania particles on structural ordering of mesoporous SBA-15 framework. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 466, 160-165.	2.3	41
56	Effect of Annealing Temperature on the Photocatalytic Performance of SnO ₂ Nanoflowers Towards Degradation of Rhodamine B. Advanced Science, Engineering and Medicine, 2015, 7, 448-456.	0.3	12
57	One pot direct synthesis of mesoporous SnO ₂ /SBA-15 nanocomposite by the hydrothermal method. Materials Letters, 2014, 132, 228-230.	1.3	36
58	Development and properties study of microstructure silver-doped silica nanocomposites by chemical process. Journal of Alloys and Compounds, 2014, 583, 550-553.	2.8	8
59	Humidity sensing properties of Ag-loaded mesoporous silica SBA-15 nanocomposites prepared via hydrothermal process. Microporous and Mesoporous Materials, 2014, 197, 140-147.	2.2	61