

# Vijay K Tomer

## List of Publications by Year in descending order

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59  
papers

3,283  
citations

117453

34  
h-index

161609

54  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3036  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional gas sensing nanomaterials: A panoramic view. Applied Physics Reviews, 2020, 7, .	5.5	295
2	Ordered mesoporous Ag-doped TiO <sub>2</sub> /SnO <sub>2</sub> nanocomposite based highly sensitive and selective VOC sensors. Journal of Materials Chemistry A, 2016, 4, 1033-1043.	5.2	215
3	Cubic mesoporous Pd-WO <sub>3</sub> 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
4	Au-TiO <sub>2</sub> -Loaded Cubic g-C <sub>3</sub> N <sub>4</sub> Nanohybrids for Photocatalytic and Volatile Organic Amine Sensing Applications. ACS Applied Materials & Interfaces, 2018, 10, 34087-34097.	4.0	132
5	A facile nanocasting synthesis of mesoporous Ag-doped SnO <sub>2</sub> nanostructures with enhanced humidity sensing performance. Sensors and Actuators B: Chemical, 2016, 223, 750-760.	4.0	130
6	An excellent humidity sensor based on In-SnO <sub>2</sub> loaded mesoporous graphitic carbon nitride. Journal of Materials Chemistry A, 2017, 5, 14134-14143.	5.2	120
7	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
8	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
9	Rapid acetone detection using indium loaded WO <sub>3</sub> /SnO <sub>2</sub> nanohybrid sensor. Sensors and Actuators B: Chemical, 2017, 253, 703-713.	4.0	112
10	Cubic mesoporous Ag@CN: a high performance humidity sensor. Nanoscale, 2016, 8, 19794-19803.	2.8	109
11	Ordered mesoporous In-(TiO <sub>2</sub> /WO <sub>3</sub> ) nanohybrid: An ultrasensitive n -butanol sensor. Sensors and Actuators B: Chemical, 2017, 239, 364-373.	4.0	90
12	Highly sensitive and selective volatile organic amine (VOA) sensors using mesoporous WO <sub>3</sub> -SnO <sub>2</sub> nanohybrids. Sensors and Actuators B: Chemical, 2016, 229, 321-330.	4.0	87
13	A low temperature, highly sensitive and fast response toluene gas sensor based on In(III)-SnO <sub>2</sub> loaded cubic mesoporous graphitic carbon nitride. Sensors and Actuators B: Chemical, 2018, 255, 3564-3575.	4.0	85
14	Near-Room-Temperature Ethanol Detection Using Ag-Loaded Mesoporous Carbon Nitrides. ACS Omega, 2017, 2, 3658-3668.	1.6	75
15	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
16	One pot synthesis of mesoporous ZnO-SiO <sub>2</sub> nanocomposite as high performance humidity sensor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 483, 121-128.	2.3	64
17	Aero-gel based CeO <sub>2</sub> nanoparticles: synthesis, structural properties and detailed humidity sensing response. Journal of Materials Chemistry C, 2019, 7, 5477-5487.	2.7	62
18	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

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19	Highly sensitive and stable relative humidity sensors based on WO <sub>3</sub> modified mesoporous silica. Applied Physics Letters, 2015, 106, .	1.5	58
20	Fast response with high performance humidity sensing of Ag@SnO <sub>2</sub> /SBA-15 nanohybrid sensors. Microporous and Mesoporous Materials, 2016, 219, 240-248.	2.2	58
21	In-situ synthesis of SnO <sub>2</sub> /SBA-15 hybrid nanocomposite as highly efficient humidity sensor. Sensors and Actuators B: Chemical, 2015, 212, 517-525.	4.0	57
22	Visible light-driven mesoporous Au@TiO <sub>2</sub> /SiO <sub>2</sub> photocatalysts for advanced oxidation process. Ceramics International, 2016, 42, 10892-10901.	2.3	57
23	Nano gold supported on ordered mesoporous WO <sub>3</sub> /SBA-15 hybrid nanocomposite for oxidative decolorization of azo dye. Microporous and Mesoporous Materials, 2016, 225, 245-254.	2.2	56
24	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
25	Mn-Loaded Mesoporous Silica Nanocomposite: A Highly Efficient Humidity Sensor. Journal of the American Ceramic Society, 2015, 98, 741-747.	1.9	54
26	Advances in the designs and mechanisms of MoO <sub>3</sub> nanostructures for gas sensors: a holistic review. Materials Advances, 2021, 2, 4190-4227.	2.6	52
27	Superior visible light photocatalysis and low-operating temperature VOCs sensor using cubic Ag(O)-MoS <sub>2</sub> loaded g-CN 3D porous hybrid. Applied Materials Today, 2019, 16, 193-203.	2.3	50
28	Surfactant assisted hydrothermal synthesis of porous 3-D hierarchical SnO <sub>2</sub> nanoflowers for photocatalytic degradation of Rose Bengal. Materials Letters, 2015, 154, 124-127.	1.3	48
29	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
30	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
31	Facile Synthesis of Hybridized Mesoporous Au@TiO <sub>2</sub> /SnO <sub>2</sub> as Efficient Photocatalyst and Selective VOC Sensor. ChemistrySelect, 2016, 1, 3247-3258.	0.7	40
32	One-Pot Hydrothermal Synthesis of Porous SnO <sub>2</sub> /SBA-15 Nanostructures for Photocatalytic Degradation of Organic Pollutants. Energy and Environment Focus, 2015, 4, 340-345.	0.3	39
33	Nanotechnology Based Solutions for Wastewater Treatment. , 2019, , 337-368.		38
34	One pot direct synthesis of mesoporous SnO <sub>2</sub> /SBA-15 nanocomposite by the hydrothermal method. Materials Letters, 2014, 132, 228-230.	1.3	36
35	In-vitro drug release kinetics studies of mesoporous SBA-15-azathioprine composite. Journal of Porous Materials, 2016, 23, 679-688.	1.3	35
36	Humidity Sensing Properties of Ag <sup>+</sup> Nanoparticles Supported on WO <sub>3</sub> @SiO <sub>2</sub> with Super Rapid Response and Excellent Stability. European Journal of Inorganic Chemistry, 2015, 2015, 5232-5240.	1.0	31

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37	Aero-gel assisted synthesis of anatase TiO <sub>2</sub> nanoparticles for humidity sensing application. Dalton Transactions, 2018, 47, 6293-6298.	1.6	26
38	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
39	Functional graphitic carbon (IV) nitride: A versatile sensing material. Coordination Chemistry Reviews, 2022, 466, 214611.	9.5	22
40	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
41	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
42	A Special Section on Applications of 2D/3D Materials in Sensing and Photocatalysis. Journal of Nanoscience and Nanotechnology, 2019, 19, 5052-5053.	0.9	18
43	Facile Preparation of TiO <sub>2</sub> -SnO <sub>2</sub> Catalysts using TiO <sub>2</sub> as an Auxiliary for Gas Sensing and Advanced Oxidation Processes. MRS Advances, 2016, 1, 3157-3162.	0.5	16
44	Lanthanide Ions Doped-SnO <sub>2</sub> : A Stable and Efficient Photocatalyst for Dye Decontamination. Energy and Environment Focus, 2016, 5, 35-42.	0.3	15
45	Hybridized Graphene for Chemical Sensing. , 2019, , 323-338.		14
46	One pot hydrothermal synthesis of ordered mesoporous SnO <sub>2</sub> /SBA-16 nanocomposites. Journal of Porous Materials, 2019, 26, 553-560.	1.3	13
47	Effect of Annealing Temperature on the Photocatalytic Performance of SnO <sub>2</sub> Nanoflowers Towards Degradation of Rhodamine B. Advanced Science, Engineering and Medicine, 2015, 7, 448-456.	0.3	12
48	Influence of functionalization type on controlled release of emodin from mesoporous silica. Journal of Porous Materials, 2016, 23, 1047-1057.	1.3	11
49	Noble Metalsâ€Metal Oxide Mesoporous Nanohybrids in Humidity and Gas Sensing Applications. , 2019, , 283-302.		11
50	Nanostructured WO <sub>3</sub> /SnO <sub>2</sub> and TiO <sub>2</sub> /SnO <sub>2</sub> Heterojunction with Enhanced Photocatalytic Performance. Energy and Environment Focus, 2016, 5, 108-115.	0.3	11
51	Enhanced Relative Humidity Sensing Performance Using TiO <sub>2</sub> /SnO <sub>2</sub> Loaded SiO <sub>2</sub> Nanocomposite. Energy and Environment Focus, 2016, 5, 234-239.	0.3	11
52	Nanosensors for monitoring indoor pollution in smart cities. , 2020, , 251-266.		9
53	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
54	Hybridized Graphitic Carbon Nitride (g-CN) as High Performance VOCs Sensor. Materials Horizons, 2020, , 285-302.	0.3	7

#	ARTICLE	IF	CITATIONS
55	Recent Advances on UV-Enhanced Oxide Nanostructures Gas Sensors. Materials Horizons, 2020, , 143-159.	0.3	3
56	Humidity Sensing Properties of Ag <sup>0</sup> Nanoparticles Supported on WO <sub>3</sub> /SiO <sub>2</sub> with Super Rapid Response and Excellent Stability. European Journal of Inorganic Chemistry, 2019, 2019, 4862-4862.	1.0	1
57	<i>A Special Issue</i> on Functional Nanomaterials for Sensor Applications. Sensor Letters, 2019, 17, 177-179.	0.4	1
58	Carbon nitride-based optical sensors for metal ion detection. , 2022, , 245-259.		0
59	Solar energy harvesting with carbon nitrides. , 2022, , 81-107.		0