

# Ashour M Ahmed

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

1,841  
citations

257450

24  
h-index

276875

41  
g-index

53  
all docs

53  
docs citations

53  
times ranked

946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Refractive index gas sensor based on the Tamm state in a one-dimensional photonic crystal: Theoretical optimisation. <i>Scientific Reports</i> , 2020, 10, 9736.	3.3	159
2	Ultra-high sensitive 1D porous silicon photonic crystal sensor based on the coupling of Tamm/Fano resonances in the mid-infrared region. <i>Scientific Reports</i> , 2019, 9, 6973.	3.3	150
3	Ni-doped and Ni/Cr co-doped TiO <sub>2</sub> nanotubes for enhancement of photocatalytic degradation of methylene blue. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 31-41.	9.4	134
4	Theoretical study of hybrid multifunctional one-dimensional photonic crystal as a flexible blood sugar sensor. <i>Physica Scripta</i> , 2020, 95, 035510.	2.5	103
5	Role of oxygen vacancies in vanadium oxide and oxygen functional groups in graphene oxide for room temperature CO <sub>2</sub> gas sensors. <i>Sensors and Actuators A: Physical</i> , 2019, 294, 17-24.	4.1	91
6	Tunability and Sensing Properties of Plasmonic/1D Photonic Crystal. <i>Scientific Reports</i> , 2017, 7, 41983.	3.3	86
7	Synthesis and characterization of nanoporous ZnO and Pt/ZnO thin films for dye degradation and water splitting applications. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17630-17648.	7.1	79
8	The structure and photoelectrochemical activity of Cr-doped PbS thin films grown by chemical bath deposition. <i>RSC Advances</i> , 2020, 10, 14458-14470.	3.6	74
9	Enhanced photoelectrochemical water splitting activity of carbon nanotubes@TiO <sub>2</sub> nanoribbons in different electrolytes. <i>Chemosphere</i> , 2020, 238, 124554.	8.2	64
10	Preparation of hexagonal nanoporous Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> /TiN as a novel photodetector with high efficiency. <i>Scientific Reports</i> , 2021, 11, 17572.	3.3	55
11	Locally Resonant Phononic Crystals at Low frequencies Based on Porous SiC Multilayer. <i>Scientific Reports</i> , 2019, 9, 14767.	3.3	46
12	Highly sensitive Au@Fe <sub>2</sub> O <sub>3</sub> @Au and Fe <sub>2</sub> O <sub>3</sub> @Au@Fe <sub>2</sub> O <sub>3</sub> biosensors utilizing strong surface plasmon resonance. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	2.2	40
13	Synthesis of novel eco-friendly CaO/C photocatalyst from coffee and eggshell wastes for dye degradation. <i>Journal of Materials Research and Technology</i> , 2021, 14, 3140-3149.	5.8	39
14	Fabrication of ZnO/CNTs for Application in CO <sub>2</sub> Sensor at Room Temperature. <i>Nanomaterials</i> , 2021, 11, 3087.	4.1	37
15	Graphite/rolled graphene oxide/carbon nanotube photoelectrode for water splitting of exhaust car solution. <i>International Journal of Energy Research</i> , 2020, 44, 7687-7697.	4.5	36
16	TiO <sub>2</sub> /TiO <sub>x</sub> NY hollow mushrooms-like nanocomposite photoanode for hydrogen electrogeneration. <i>Journal of Porous Materials</i> , 2020, 27, 133-139.	2.6	35
17	Simple and Low-Cost Synthesis of Ba-Doped CuO Thin Films for Highly Efficient Solar Generation of Hydrogen. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22347-22356.	3.1	33
18	High-Performance Temperature Sensor Based on One-dimensional Pyroelectric Photonic Crystals Comprising Tamm/Fano Resonances. <i>Plasmonics</i> , 2021, 16, 547-557.	3.4	33

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19	Facile Fabrication of Polyaniline/Pbs Nanocomposite for High-Performance Supercapacitor Application. <i>Nanomaterials</i> , 2022, 12, 817.	4.1	32
20	Theoretical design of porous phononic crystal sensor for detecting CO2 pollutions in air. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 124, 114353.	2.7	31
21	Plasmonic hybridization between two metallic nanorods. <i>Optik</i> , 2018, 172, 1069-1078.	2.9	28
22	Remote Temperature Sensor Based on Tamm Resonance. <i>Silicon</i> , 2022, 14, 2765-2777.	3.3	28
23	Effect of Morphology and Plasmonic on Au/ZnO Films for Efficient Photoelectrochemical Water Splitting. <i>Nanomaterials</i> , 2021, 11, 2338.	4.1	28
24	Novel design of wide temperature ranges sensor based on Tamm state in a pyroelectric photonic crystal with high sensitivity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 125, 114387.	2.7	27
25	Efficient photoelectrochemical hydrogen production utilizing of $\langle \text{scp} \rangle \text{APbl} \langle \text{sub} \rangle 3 \langle \text{sub} \rangle \langle \text{scp} \rangle$ (A) Tj ETQq1 1 0.784314 $\frac{\text{rgBT}}{\text{Over}}$	4.5	26
26	Detection of toluene traces in exhaled breath by using a 1D PC as a biomarker for lung cancer diagnosis. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	26
27	Simple and efficient design towards a significant improvement of the optical absorption of amorphous silicon solar cell. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 275, 107890.	2.3	26
28	Preparation and characterization of a high-efficiency photoelectric detector composed of hexagonal Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> /TiN/Au nanoporous array. <i>Materials Science in Semiconductor Processing</i> , 2022, 139, 106348.	4.0	26
29	Theoretical investigations of Tamm plasmon resonance for monitoring of isoprene traces in the exhaled breath: Towards chronic liver fibrosis disease biomarkers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 413, 127610.	2.1	23
30	Fabrication and characterization of micro/nanoporous Cr film for sensing applications. <i>Microporous and Mesoporous Materials</i> , 2014, 198, 115-121.	4.4	20
31	Electro-optical tenability properties of defective one-dimensional photonic crystal. <i>Optik</i> , 2017, 145, 121-129.	2.9	19
32	Water desalination and dyes separation from industrial wastewater by PES/TiO <sub>2</sub> NTs mixed matrix membranes. <i>Journal of Polymer Research</i> , 2019, 26, 1.	2.4	19
33	Modeling of phononic crystal cavity for sensing different biodiesel fuels with high sensitivity. <i>Materials Chemistry and Physics</i> , 2021, 257, 123774.	4.0	19
34	Nanoporous chromium thin film for active detection of toxic heavy metals traces using surface-enhanced Raman spectroscopy. <i>Materials Research Express</i> , 2020, 7, 015084.	1.6	15
35	Highly Efficient Photocatalyst Fabricated from the Chemical Recycling of Iron Waste and Natural Zeolite for Super Dye Degradation. <i>Nanomaterials</i> , 2022, 12, 235.	4.1	14
36	Glucose sensor modeling based on Fano resonance excitation in titania nanotube photonic crystal coated by titanium nitride as a plasmonic material. <i>Applied Optics</i> , 2022, 61, 1668.	1.8	12

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37	Synthesis and Characterization of NiCoPt/CNFs Nanoparticles as an Effective Electrocatalyst for Energy Applications. <i>Nanomaterials</i> , 2022, 12, 492.	4.1	12
38	Morphological and optical properties of ultra-thin nanostructured Cu films deposited by RF sputtering on nanoporous anodic alumina substrate. <i>Micro and Nano Letters</i> , 2016, 11, 295-298.	1.3	11
39	Effect of Au Plasmonic Material on Poly M-Toluidine for Photoelectrochemical Hydrogen Generation from Sewage Water. <i>Polymers</i> , 2022, 14, 768.	4.5	11
40	Scattering spectra of magneto-plasmonic core/shell nanoparticle based on Mie theory. <i>Materials Research Express</i> , 2019, 6, 085073.	1.6	10
41	ITO/Poly-3-Methylaniline/Au Electrode for Electrochemical Water Splitting and Dye Removal. <i>ECS Journal of Solid State Science and Technology</i> , 0, , .	1.8	10
42	Fabrication of TiO <sub>2</sub> /NiO p-n Nanocomposite for Enhancement Dye Photodegradation under Solar Radiation. <i>Nanomaterials</i> , 2022, 12, 989.	4.1	8
43	Conversion of Sewage Water into H <sub>2</sub> Gas Fuel Using Hexagonal Nanosheets of the Polyaniline-Assisted Deposition of PbI <sub>2</sub> as a Nanocomposite Photocathode with the Theoretical Qualitative Ab-Initio Calculation of the H <sub>2</sub> O Splitting. <i>Polymers</i> , 2022, 14, 2148.	4.5	8
44	Multilayer angular optical filter as a smart window. <i>Indian Journal of Physics</i> , 2020, 94, 95-103.	1.8	7
45	Simple, efficient and accurate method toward the monitoring of ethyl butanoate traces. <i>Optical and Quantum Electronics</i> , 2022, 54, 126.	3.3	7
46	Evolution of optical Tamm states in a 1D photonic crystal comprising a nanocomposite layer for optical filtering and reflecting purposes. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	3.3	7
47	Tunability of local resonant modes in Fibonacci one-dimensional phononic crystals by hydrostatic pressure. <i>Optik</i> , 2021, 244, 167546.	2.9	6
48	Hydrostatic pressure effects for controlling the phononic band gap properties in a perfect phononic crystal. <i>Optical and Quantum Electronics</i> , 2022, 54, 1.	3.3	6
49	Recycling Rusty Iron with Natural Zeolite Heulandite to Create a Unique Nanocatalyst for Green Hydrogen Production. <i>Nanomaterials</i> , 2021, 11, 3445.	4.1	5
50	Design of hexa-wheel sectored photonic crystal fiber for soybean biodiesel sensing. <i>Physica Scripta</i> , 2022, 97, 030005.	2.5	4
51	Defect mode modulation for a protein solution cavity surrounded by graphene and nanocomposite layers. <i>Optik</i> , 2021, 242, 167161.	2.9	3
52	EFFECTS OF RADON INHALATION ON SOME BIOPHYSICAL PROPERTIES OF BLOOD IN RATS. , 2013, , 286-294.		2