

# 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	Remote Temperature Sensor Based on Tamm Resonance. Silicon, 2022, 14, 2765-2777.	3.3	28
2	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. Materials Science in Semiconductor Processing, 2022, 139, 106348.	4.0	26
3	Glucose sensor modeling based on Fano resonance excitation in titania nanotube photonic crystal coated by titanium nitride as a plasmonic material. Applied Optics, 2022, 61, 1668.	1.8	12
4	Synthesis and Characterization of NiCoPt/CNFs Nanoparticles as an Effective Electrocatalyst for Energy Applications. Nanomaterials, 2022, 12, 492.	4.1	12
5	Highly Efficient Photocatalyst Fabricated from the Chemical Recycling of Iron Waste and Natural Zeolite for Super Dye Degradation. Nanomaterials, 2022, 12, 235.	4.1	14
6	Simple, efficient and accurate method toward the monitoring of ethyl butanoate traces. Optical and Quantum Electronics, 2022, 54, 126.	3.3	7
7	Hydrostatic pressure effects for controlling the phononic band gap properties in a perfect phononic crystal. Optical and Quantum Electronics, 2022, 54, 1.	3.3	6
8	Design of hexa-wheel sectored photonic crystal fiber for soybean biodiesel sensing. Physica Scripta, 2022, 97, 030005.	2.5	4
9	Effect of Au Plasmonic Material on Poly M-Toluidine for Photoelectrochemical Hydrogen Generation from Sewage Water. Polymers, 2022, 14, 768.	4.5	11
10	Facile Fabrication of Polyaniline/Pbs Nanocomposite for High-Performance Supercapacitor Application. Nanomaterials, 2022, 12, 817.	4.1	32
11	Fabrication of TiO <sub>2</sub> /NiO p-n Nanocomposite for Enhancement Dye Photodegradation under Solar Radiation. Nanomaterials, 2022, 12, 989.	4.1	8
12	Evolution of optical Tamm states in a 1D photonic crystal comprising a nanocomposite layer for optical filtering and reflecting purposes. Optical and Quantum Electronics, 2022, 54, 1.	3.3	7
13	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. Polymers, 2022, 14, 2148.	4.5	8
14	Novel design of wide temperature ranges sensor based on Tamm state in a pyroelectric photonic crystal with high sensitivity. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 125, 114387.	2.7	27
15	High-Performance Temperature Sensor Based on One-dimensional Pyroelectric Photonic Crystals Comprising Tamm/Fano Resonances. Plasmonics, 2021, 16, 547-557.	3.4	33
16	Efficient photoelectrochemical hydrogen production utilizing of $\langle \text{scp} \rangle \text{APbI}_3 \langle / \text{scp} \rangle$ (A) Tj ETQq0 0 0 rrgBT /Overlock 10 T	4.5	26
17	Modeling of phononic crystal cavity for sensing different biodiesel fuels with high sensitivity. Materials Chemistry and Physics, 2021, 257, 123774.	4.0	19
18	Detection of toluene traces in exhaled breath by using a 1D PC as a biomarker for lung cancer diagnosis. European Physical Journal Plus, 2021, 136, 1.	2.6	26

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19	Effect of Morphology and Plasmonic on Au/ZnO Films for Efficient Photoelectrochemical Water Splitting. <i>Nanomaterials</i> , 2021, 11, 2338.	4.1	28
20	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
21	Defect mode modulation for a protein solution cavity surrounded by graphene and nanocomposite layers. <i>Optik</i> , 2021, 242, 167161.	2.9	3
22	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
23	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
24	Tunability of local resonant modes in Fibonacci one-dimensional phononic crystals by hydrostatic pressure. <i>Optik</i> , 2021, 244, 167546.	2.9	6
25	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
26	Fabrication of ZnO/CNTs for Application in CO <sub>2</sub> Sensor at Room Temperature. <i>Nanomaterials</i> , 2021, 11, 3087.	4.1	37
27	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
28	Multilayer angular optical filter as a smart window. <i>Indian Journal of Physics</i> , 2020, 94, 95-103.	1.8	7
29	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
30	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
31	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
32	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
33	Theoretical design of porous phononic crystal sensor for detecting CO <sub>2</sub> pollutions in air. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 124, 114353.	2.7	31
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	Locally Resonant Phononic Crystals at Low frequencies Based on Porous SiC Multilayer. <i>Scientific Reports</i> , 2019, 9, 14767.	3.3	46
42	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
43	Scattering spectra of magneto-plasmonic core/shell nanoparticle based on Mie theory. <i>Materials Research Express</i> , 2019, 6, 085073.	1.6	10
44	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
45	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
46	Plasmonic hybridization between two metallic nanorods. <i>Optik</i> , 2018, 172, 1069-1078.	2.9	28
47	Tunability and Sensing Properties of Plasmonic/1D Photonic Crystal. <i>Scientific Reports</i> , 2017, 7, 41983.	3.3	86
48	Electro-optical tunability properties of defective one-dimensional photonic crystal. <i>Optik</i> , 2017, 145, 121-129.	2.9	19
49	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
50	Fabrication and characterization of micro/nanoporous Cr film for sensing applications. <i>Microporous and Mesoporous Materials</i> , 2014, 198, 115-121.	4.4	20
51	EFFECTS OF RADON INHALATION ON SOME BIOPHYSICAL PROPERTIES OF BLOOD IN RATS. , 2013, , 286-294.		2
52	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