

Sherif Abdulkader Tawfik

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

1,179
citations

19
h-index

33
g-index

66
ext. papers

1,561
ext. citations

7.2
avg, IF

4.76
L-index

#	Paper	IF	Citations
58	The current magnetization hypothesis as a microscopic theory of the first magnetic field induction. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	0
57	Mono- to few-layer non-van der Waals 2D lanthanide-doped NaYF ₄ nanosheets with upconversion luminescence. <i>2D Materials</i> , 2021 , 8, 015005	5.9	0
56	PyPhotonics: A python package for the evaluation of luminescence properties of defects. <i>Computer Physics Communications</i> , 2021 , 108222	4.2	0
55	Twist-Dependent Electron Charge Transfer and Transport in Phosphorene/Graphene Heterobilayers. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 25886-25897	3.8	0
54	2D/3D Hybrid of MoS ₂ /GaN for a High-Performance Broadband Photodetector. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 2407-2414	4	16
53	Attenuation of Redox Switching and Rectification in Azulenequinones/Hydroquinones after B and N Doping: A First-Principles Investigation. <i>Advanced Theory and Simulations</i> , 2021 , 4, 2000203	3.5	2
52	Fully Light-Controlled Memory and Neuromorphic Computation in Layered Black Phosphorus. <i>Advanced Materials</i> , 2021 , 33, e2004207	24	50
51	Role of Surface Paramagnetic Oxygen Species in the Desulfurization Reactions on Zinc Oxide. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 4559-4566	3.8	0
50	Black Phosphorus/Diketopyrrolopyrrole Polymer Semiconductor Hybrid for Enhanced Charge Transfer and Photodetection. <i>Advanced Photonics Research</i> , 2021 , 2100150	1.9	0
49	Alkali-Assisted Hydrothermal Exfoliation and Surfactant-Driven Functionalization of h-BN Nanosheets for Lubrication Enhancement. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9143-9154	5.6	3
48	The generalized spin-orbit interaction: A microscopic origin of the first magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 504, 166660	2.8	1
47	Structural-Defect-Mediated Grafting of Alkylamine on Few-Layer MoS and Its Potential for Enhancement of Tribological Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30720-30730	9.5	18
46	Electrically Activated UV-A Filters Based on Electrochromic MoO. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16997-17003	9.5	17
45	Differential Work-Function Enabled Bifunctional Switching in Strontium Titanate Flexible Resistive Memories. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7326-7333	9.5	6
44	Predicting Thermal Properties of Crystals Using Machine Learning. <i>Advanced Theory and Simulations</i> , 2020 , 3, 1900208	3.5	14
43	Ordered-vacancy-enabled indium sulphide printed in wafer-scale with enhanced electron mobility. <i>Materials Horizons</i> , 2020 , 7, 827-834	14.4	19
42	Theoretical insight on the origin of anelasticity in zinc oxide nanowires. <i>Nanoscale</i> , 2020 , 12, 2439-2444	7.7	2

41	Observation of near-infrared sub-Poissonian photon emission in hexagonal boron nitride at room temperature. <i>APL Photonics</i> , 2020 , 5, 076103	5.2	7
40	Liquid-Metal Synthesized Ultrathin SnS Layers for High-Performance Broadband Photodetectors. <i>Advanced Materials</i> , 2020 , 32, e2004247	24	34
39	Interplay of Mechanical and Chemical Tunability of Phosphorene for Flexible Nanoelectronic Applications. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 24391-24399	3.8	2
38	Adsorption of toxic gases on silicene/Ag(111). <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 17521-17537	3.6	10
37	Tuning the work function of the silicene/Ag(111) surface. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7165-7173	3.6	6
36	Electrically Sorted Single-Walled Carbon Nanotubes-Based Electron Transporting Layers for Perovskite Solar Cells. <i>iScience</i> , 2019 , 14, 100-112	6.1	22
35	Efficient Production of Phosphorene Nanosheets via Shear Stress Mediated Exfoliation for Low-Temperature Perovskite Solar Cells. <i>Small Methods</i> , 2019 , 3, 1800521	12.8	42
34	Multifunctional Optoelectronics via Harnessing Defects in Layered Black Phosphorus. <i>Advanced Functional Materials</i> , 2019 , 29, 1901991	15.6	50
33	Electronic transport investigation of redox-switching of azulenequinones/hydroquinones via first-principles studies. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 17859-17867	3.6	2
32	Photochemical Etching of Carbonyl Groups from a Carbon Matrix: The (001) Diamond Surface. <i>Physical Review Letters</i> , 2019 , 122, 016802	7.4	3
31	Efficient Prediction of Structural and Electronic Properties of Hybrid 2D Materials Using Complementary DFT and Machine Learning Approaches. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1800128	3.5	34
30	Anisotropic functionalization of upconversion nanoparticles. <i>Chemical Science</i> , 2018 , 9, 4352-4358	9.4	31
29	Systematic investigation of functional ligands for colloidal stable upconversion nanoparticles.. <i>RSC Advances</i> , 2018 , 8, 4842-4849	3.7	46
28	Electrocatalytic Activity of a 2D Phosphorene-Based Heteroelectrocatalyst for Photoelectrochemical Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2644-2647	16.4	39
27	Electrocatalytic Activity of a 2D Phosphorene-Based Heteroelectrocatalyst for Photoelectrochemical Cells. <i>Angewandte Chemie</i> , 2018 , 130, 2674-2677	3.6	8
26	Activation of the surface dark-layer to enhance upconversion in a thermal field. <i>Nature Photonics</i> , 2018 , 12, 154-158	33.9	174
25	Magnetic properties of stoichiometric and defective CoS. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 2356-2362	3.6	11
24	Evaluation of van der Waals density functionals for layered materials. <i>Physical Review Materials</i> , 2018 , 2,	3.2	47

23	Are dispersion corrections accurate outside equilibrium? A case study on benzene. <i>Beilstein Journal of Organic Chemistry</i> , 2018 , 14, 1181-1191	2.5	10
22	van der Waals forces control ferroelectric-antiferroelectric ordering in CuInPS and CuBiPSe laminar materials. <i>Chemical Science</i> , 2018 , 9, 7620-7627	9.4	21
21	van der Waals Forces Control the Internal Chemical Structure of Monolayers within the Lamellar Materials CuInP2S6 and CuBiP2Se6. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22675-22687	3.8	11
20	Superconductivity in intercalated buckled two-dimensional materials: KGe. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24027-24032	3.6	1
19	Robust Solid-State Quantum System Operating at 800 K. <i>ACS Photonics</i> , 2017 , 4, 768-773	6.3	68
18	Near-Perfect Spin Filtering and Negative Differential Resistance in an Fe(II)S Complex. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2189-2194	6.4	9
17	Efficiency Enhancement of Single-Walled Carbon Nanotube-Silicon Heterojunction Solar Cells Using Microwave-Exfoliated Few-Layer Black Phosphorus. <i>Advanced Functional Materials</i> , 2017 , 27, 1704488	15.6	36
16	First-principles investigation of quantum emission from hBN defects. <i>Nanoscale</i> , 2017 , 9, 13575-13582	7.7	122
15	TDDFT Study of the Optical Excitation of Nucleic Acid Bases-C Complexes. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 9058-9063	2.8	1
14	Efficient and Fast Synthesis of Few-Layer Black Phosphorus via Microwave-Assisted Liquid-Phase Exfoliation. <i>Small Methods</i> , 2017 , 1, 1700260	12.8	47
13	Detection of adsorbed transition-metal porphyrins by spin-dependent conductance of graphene nanoribbon. <i>RSC Advances</i> , 2017 , 7, 29112-29121	3.7	5
12	Large spin-filtering effect in Ti-doped defective zigzag graphene nanoribbon. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16224-8	3.6	5
11	Enhanced oscillatory rectification and negative differential resistance in pentamantane diamondoid-cumulene systems. <i>Nanoscale</i> , 2016 , 8, 3461-6	7.7	6
10	Endohedral metallofullerenes, M@C60 (M = Ca, Na, Sr): selective adsorption and sensing of open-shell NOx gases. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 21315-21	3.6	5
9	Communication: Electrical rectification of C59N: The role of anchoring and doping sites. <i>Journal of Chemical Physics</i> , 2016 , 144, 021101	3.9	3
8	Sensing sulfur-containing gases using titanium and tin decorated zigzag graphene nanoribbons from first-principles. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6925-32	3.6	46
7	High On/Off Conductance Switching Ratio via H-Tautomerization in Quinone. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 4154-8	6.4	12
6	Multiple CO2 capture in stable metal-doped graphene: a theoretical trend study. <i>RSC Advances</i> , 2015 , 5, 50975-50982	3.7	33

5	Plasmonic Slot Waveguides with Core Nonlinearity. <i>Plasmonics</i> , 2014 , 9, 409-413	2.4	5
4	Localized states in an ultracold atomic gas trapped in a bichromatic potential: The effect of a time-varying phase. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012 , 17, 3552-3557	3-7	2
3	First principles calculation of field emission from carbon nanotubes with nitrogen and boron doping. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011 , 44, 111-114	3	5
2	First principles calculation of field emission from nanostructures using time-dependent density functional theory: A simplified approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011 , 43, 1360-1364	3	2
1	Mixed Ionic-Electronic Charge Transport in Layered Black-Phosphorus for Low-Power Memory. <i>Advanced Functional Materials</i> , 2107068	15.6	4