

Abdullah G Al-Sehemi

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.

377 papers	5,148 citations	32 h-index	45 g-index
398 ext. papers	6,550 ext. citations	3.2 avg, IF	6.37 L-index

#	Paper	IF	Citations
377	Shedding light on the optical and nonlinear optical properties of superalkali-doped borophene.. <i>Journal of Molecular Modeling</i> , 2022 , 28, 46	2	0
376	Shedding Light on the Synthesis, Crystal Structure, Characterization, and Computational Study of Optoelectronic Properties and Bioactivity of Imine derivatives.. <i>ACS Omega</i> , 2022 , 7, 5217-5230	3.9	4
375	Insighting the functionally modified C60 fullerenes as an efficient nonlinear optical materials: A quantum chemical study. <i>Materials Science in Semiconductor Processing</i> , 2022 , 141, 106421	4.3	5
374	Pyridine nitrogen position controlled molecular packing and stimuli-responsive solid-state fluorescence switching: supramolecular complexation facilitated turn-on fluorescence. <i>CrystEngComm</i> , 2022 , 24, 2642-2649	3.3	0
373	The photovoltaic application and optics of ZnO/TiO ₂ and ZnO/NiO nanocomposite binary system 2022 , 207190		0
372	Structural Modifications on Chalcone Framework for Developing New Class of Cholinesterase Inhibitors.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	2
371	Computational Study on the Inhibitory Effect of Natural Compounds against the SARS-CoV-2 Proteins.. <i>Bioinorganic Chemistry and Applications</i> , 2022 , 2022, 8635054	4.2	3
370	Photodiode performance and infrared light sensing capabilities of quaternary Cu ₂ ZnSnS ₄ chalcogenide. <i>Surfaces and Interfaces</i> , 2022 , 29, 101802	4.1	0
369	In silico exploration of binding potentials of anti SARS-CoV-1 phytochemicals against main protease of SARS-CoV-2. <i>Journal of Saudi Chemical Society</i> , 2022 , 26, 101453	4.3	
368	New insights to atherosclerosis management: Role of nanomaterials. <i>Applied Materials Today</i> , 2022 , 27, 101466	6.6	0
367	Phytochemical, pharmacological and in silico studies on Teucrium stocksianum Bioss. <i>Journal of King Saud University - Science</i> , 2022 , 34, 101969	3.6	
366	Knotting Two Donor/Acceptor AIEgens Using a Nonconjugated Linker: Tunable and Switchable Fluorescence and Fingerprinting and Live Cell Imaging Applications. <i>Crystal Growth and Design</i> , 2022 , 22, 633-642	3.5	4
365	A facile molecular aggregation of isoquinoline based CN for high photocatalytic performance under visible light illumination. <i>Materials Research Bulletin</i> , 2022 , 111865	5.1	1
364	Synthesis and Application of Egg Shell Biochar for As(V) Removal from Aqueous Solutions. <i>Catalysts</i> , 2022 , 12, 431	4	2
363	Electrical, photoconductive, and photovoltaic characteristics of a Bi ₂ Se ₃ 3D topological insulator based metal-insulator-semiconductor diode. <i>Sensors and Actuators A: Physical</i> , 2022 , 341, 113575	3.9	0
362	Inhibitory effect of thymoquinone from Nigella sativa against SARS-CoV-2 main protease. An in-silico study.. <i>Brazilian Journal of Biology</i> , 2022 , 84, e250667	1.5	2
361	Coumaronochromone as antibacterial and carbonic anhydrase inhibitors from (Burm.f.) Merr.: experimental and first-principles approaches. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2021 , 76, 71-78	1.7	3

360	A DFT+U study of the effect of transition metal replacements on optoelectronic and elastic properties of TmCu ₃ S ₄ (Tm = V, Ta, Nb). <i>Optik</i> , 2021 , 250, 168289	2.5	0
359	Enhanced Solar Photocatalytic Reduction of Cr(VI) Using a (ZnO/CuO) Nanocomposite Grafted onto a Polyester Membrane for Wastewater Treatment. <i>Polymers</i> , 2021 , 13,	4.5	3
358	evaluation of NO donor heterocyclic vasodilators as SARS-CoV-2 M protein inhibitor. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-18	3.6	3
357	Isolation of phytochemicals from <i>Malva neglecta</i> Wallr and their quantum chemical, molecular docking exploration as active drugs against COVID-19. <i>Journal of Saudi Chemical Society</i> , 2021 , 101358	4.3	2
356	Applications of Polymeric Materials in Biomedical Engineering. <i>Advances in Science, Technology and Innovation</i> , 2021 , 133-142	0.3	
355	Potential of NO donor furoxan as SARS-CoV-2 main protease (M) inhibitors: analysis. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 39, 5804-5818	3.6	12
354	Excited state absorption of Cu-doped barium borate nanostructures under nanopulsed laser excitation. <i>European Physical Journal D</i> , 2021 , 75, 1	1.3	1
353	Exploring the new potential antiviral constituents of <i>Moringa oliefera</i> for SARS-COV-2 pathogenesis: An molecular docking and dynamic studies. <i>Chemical Physics Letters</i> , 2021 , 767, 138379	2.5	22
352	COVID-19 and Domestic Animals: Exploring the Species Barrier Crossing, Zoonotic and Reverse Zoonotic Transmission of SARS-CoV-2. <i>Current Pharmaceutical Design</i> , 2021 , 27, 1194-1201	3.3	8
351	In-vitro and in-silico antioxidant, α -glucosidase inhibitory potentials of abutilins C and D, new flavonoid glycosides from <i>Abutilon pakistanicum</i> . <i>Arabian Journal of Chemistry</i> , 2021 , 14, 103021	5.9	2
350	A Study on Optoelectronic Properties of Copper Zinc Tin Sulfur Selenide: A Promising Thin-Film Material for Next Generation Solar Technology. <i>Crystal Research and Technology</i> , 2021 , 56, 2000159	1.3	
349	Adsorption behavior of mercury over hydrated lime: Experimental investigation and adsorption process characteristic study. <i>Chemosphere</i> , 2021 , 271, 129504	8.4	13
348	Counteraction of Biofilm Formation and Antimicrobial Potential of Functionalized Silver Nanoparticles against and Multidrug-Resistant Gram-Negative and Gram-Positive Bacteria. <i>Antibiotics</i> , 2021 , 10,	4.9	10
347	Sources, chemistry, bioremediation and social aspects of arsenic-contaminated waters: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 3859-3886	13.3	8
346	Effects of expandable graphite on char morphology and pyrolysis of epoxy based intumescent fire-retardant coating. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51206	2.9	2
345	Exploring the potential of novel phenolic compounds as potential therapeutic candidates against SARS-CoV-2, using quantum chemistry, molecular docking and dynamic studies. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021 , 43, 128079	2.9	9
344	Theoretical investigation of structural and magnetic properties of MnTiX (X = Si, Ge, Se, Te) half-Heusler alloys. <i>Indian Journal of Physics</i> , 2021 , 95, 841-849	1.4	3
343	Natural rubber composites containing low and high dielectric constant fillers and their application as substrates for compact flexible antennas. <i>Polymers and Polymer Composites</i> , 2021 , 29, 233-245	0.8	1

342	Comparative Adsorption of Pb ²⁺ on Nanostructured Iron-Zirconium Oxide with Fe-to-Zr Molar Ratio of 1:1 and 1:2: Thermodynamic and Kinetic Studies. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 287-300	2.5	1
341	Synthesis-structure-property relationship of nitrogen-doped porous covalent triazine frameworks for pre-combustion CO ₂ capture. <i>Energy</i> , 2021 , 216, 119230	7.9	9
340	Exploring the effect of oligothiophene and acene cores on the optoelectronic properties and enhancing p- and n-type ability of semiconductor materials. <i>Journal of Sulfur Chemistry</i> , 2021 , 42, 180-192	2.3	4
339	Exploring the twisted molecular configurations for tuning their optical and nonlinear optical response properties: A quantum chemical approach. <i>Journal of Molecular Graphics and Modelling</i> , 2021 , 102, 107766	2.8	5
338	An exploration of the optoelectronic nature of 4,4-difluoro-8-(C ₄ H ₃ X)-4-bora-3a,4a-diaza-s-indacene (X = O, S, Se) (BODIPY) systems. <i>Journal of Computational Electronics</i> , 2021 , 20, 368-376	1.8	1
337	The photo-electrical performance of the novel CuAlMnFe shape memory alloy film in the diode application. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 264, 114931	3.1	6
336	Oxygen vacancy-rich black TiO ₂ nanoparticles as a highly efficient catalyst for LiO ₂ batteries. <i>Ceramics International</i> , 2021 , 47, 6965-6971	5.1	3
335	Effect of expandable graphite and ammonium polyphosphate on the thermal degradation and weathering of intumescent fire-retardant coating. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50310	2.9	4
334	Flexible polymer/fabric fractal monopole antenna for wideband applications. <i>IET Microwaves, Antennas and Propagation</i> , 2021 , 15, 80-92	1.6	2
333	Molecular structure controlled self-assembly of pyridine appended fluorophores: multi-stimuli fluorescence responses and fabricating rewritable/self-erasable fluorescent platforms. <i>Materials Advances</i> , 2021 , 2, 996-1005	3.3	12
332	Nuclear Desalination. <i>Advances in Science, Technology and Innovation</i> , 2021 , 121-135	0.3	1
331	Exploring the optoelectronic and third-order nonlinear optical susceptibility of cross-shaped molecules: insights from molecule to material level. <i>Journal of Molecular Modeling</i> , 2021 , 27, 12	2	14
330	Recent advances in excited state intramolecular proton transfer mechanism-based solid state fluorescent materials and stimuli-responsive fluorescence switching. <i>CrystEngComm</i> , 2021 , 23, 3771-3789	3.3	13
329	Design of a flexible waterproof antenna for Internet of Things applications. <i>Journal of Electromagnetic Waves and Applications</i> , 2021 , 35, 874-887	1.3	1
328	Biological Methods for Carbon Dioxide Conversion and Utilization. <i>Advances in Science, Technology and Innovation</i> , 2021 , 165-177	0.3	
327	Effect of the Active Layer Thickness of Pentacene Thin Film Transistor; Illumination Effect. <i>Journal of Electronic Materials</i> , 2021 , 50, 5701-5712	1.9	
326	Design and investigation of novel Maraviroc analogues as dual inhibition of CCR-5/SARS-CoV-2 M. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021 , 1-16	3.6	3
325	An approach to enhance the photocatalytic activity of ZnTiO ₃ . <i>Ceramics International</i> , 2021 , 47, 18122-18131	3.1	2

324	Investigation on (Zn) doping and anionic surfactant (SDS) effect on SnO nanostructures for enhanced photocatalytic RhB dye degradation. <i>Environmental Research</i> , 2021 , 199, 111312	7.9	5
323	Exploration of electronic properties, radical scavenging activity and QSAR of oxadiazole derivatives by molecular docking and first-principles approaches. <i>Saudi Journal of Biological Sciences</i> , 2021 , 28, 741647421	4.7	1
322	Phenolic and flavonoid contents in Malva sylvestris and exploration of active drugs as antioxidant and anti-COVID19 by quantum chemical and molecular docking studies. <i>Journal of Saudi Chemical Society</i> , 2021 , 25, 101277	4.3	8
321	Dye sensitized solar cell-based optoelectronic device using novel [Ru(L1)(L2)(NCS)2] complex. <i>Journal of Molecular Structure</i> , 2021 , 1238, 130464	3.4	3
320	Combinatorial synthesis of tin antimony sulfide thin films for solar cell application. <i>International Journal of Energy Research</i> , 2021 , 45, 21527	4.5	0
319	Fabricating highly efficient Ag3PO4-Fe3O4-GO ternary nanocomposite photocatalyst: Effect of Fe3O4-GO preparation methods on photocatalytic activity. <i>Materials Research Bulletin</i> , 2021 , 141, 111337	5.1	3
318	Pyrazines with terminal donor groups for third-order nonlinear optics: effect of graphene oxide on nonlinear absorption. <i>Journal of Chemical Sciences</i> , 2021 , 133, 1	1.8	1
317	Synthesis, characterization, anti-proliferative activity and DFT study of 1H-benzo[f]chromene-2-carbothioamide derivatives. <i>Journal of Molecular Structure</i> , 2021 , 1240, 130542	3.4	1
316	Exploration of carbonic anhydrase inhibition of bioactive metabolites from Pistacia integerrima by molecular docking and first-principles investigations. <i>Journal of Saudi Chemical Society</i> , 2021 , 25, 101324	4.3	1
315	Zinc oxide based 3-components semiconductor oxide photodiodes by dynamic spin coating method. <i>Materials Science in Semiconductor Processing</i> , 2021 , 134, 106034	4.3	5
314	Electrical, kinetic and photoelectrical properties of CuAlMnMg shape memory alloy/n-Si Schottky diode. <i>Journal of Alloys and Compounds</i> , 2021 , 888, 161600	5.7	4
313	Optoelectronic investigation of Cu2FeSnS4 quaternary functional photodiodes with IR detection capabilities. <i>Journal of Molecular Structure</i> , 2021 , 1246, 131265	3.4	1
312	Application of Membrane in Reaction Engineering for Green Synthesis. <i>Advances in Science, Technology and Innovation</i> , 2021 , 163-171	0.3	
311	Meteloxetin (1) Novel Phenolic Amino-Oxetane Cholinesterase Inhibitors from Datura metel Linn and First-Principle Investigations. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 5681-5690	2.5	1
310	Synthesis of Copper(II) Coordination Complex, Its Molecular Docking and Computational Exploration for Novel Functional Properties: A Dual Approach. <i>ChemistrySelect</i> , 2021 , 6, 738-745	1.8	9
309	Structure and composition characterization of biocomposites filled with sol-gel bioglasses from the CaO/SiO2/B2O5/Ag2O systems. <i>Journal of Rubber Research (Kuala Lumpur, Malaysia)</i> , 2021 , 24, 77-92	0.9	
308	An Implicit Numerical Approach for 2D Rayleigh Stokes Problem for a Heated Generalized Second Grade Fluid with Fractional Derivative. <i>Fractal and Fractional</i> , 2021 , 5, 283	3	0
307	A threefold approach including quantum chemical, molecular docking and molecular dynamic studies to explore the natural compounds from Centaurea jacea as the potential inhibitors for COVID-19. <i>Brazilian Journal of Biology</i> , 2021 , 83, e247604	1.5	0

306	Synthesis, characterizations, crystal structures, and theoretical studies of copper(II) and nickel(II) coordination complexes. <i>Journal of Coordination Chemistry</i> , 2020 , 73, 1256-1279	1.6	7
305	Exploring the potential use of Ca[LiAl ₃ N ₄]:Eu ²⁺ as phosphor-LED material: Ab-initio calculations. <i>Materials Today Communications</i> , 2020 , 25, 101302	2.5	3
304	3D Flower-Like FeWO ₃ /CeO ₂ Hierarchical Architectures on rGO for Durable and High-Performance Microalgae Biophotovoltaic Fuel Cells. <i>Applied Biochemistry and Biotechnology</i> , 2020 , 192, 751-769	3.2	5
303	An experimental and computational study of pyrimidine based bis-uracil derivatives as efficient candidates for optical, nonlinear optical, and drug discovery applications. <i>Synthetic Communications</i> , 2020 , 50, 2199-2225	1.7	9
302	Natural rubber composites containing fillers of sol-gel glasses and glass-ceramics in the CaO/SiO ₂ /B ₂ O ₅ system. <i>Iranian Polymer Journal (English Edition)</i> , 2020 , 29, 799-810	2.3	
301	A flexible broadband antenna for IoT applications. <i>International Journal of Microwave and Wireless Technologies</i> , 2020 , 12, 531-540	0.8	5
300	Easily Accessible Schiff Base ESIPT Molecules with Tunable Solid State Fluorescence: Mechanofluorochromism and Highly Selective Co ²⁺ Fluorescence Sensing. <i>ChemistrySelect</i> , 2020 , 5, 3295-3302 ^{1.8}	1.8	8
299	Facile Synthesis, Spectral (IR, Mass, UV-Vis, NMR), Linear and Nonlinear Investigation of the Novel Phosphonate Compounds: A Combined Experimental and Simulation Study. <i>ChemistrySelect</i> , 2020 , 5, 2994-3006	1.8	12
298	Synthesis, characterization, Hirshfeld surface analysis and computational studies of 1-methylpiperazine-1,4-dium bis(hydrogen oxalate): [C ₅ H ₁₄ N ₂](HC ₂ O ₄) ₂ . <i>Journal of Molecular Structure</i> , 2020 , 1211, 128075	3.4	10
297	SnO ₂ nanocubes/bentonite modified SPEEK nanocomposite composite membrane for high performance and durable direct methanol fuel cells. <i>Solid State Ionics</i> , 2020 , 353, 115318	3.3	6
296	Investigation of electrical properties of organophosphazene layer based photodiode. <i>Chemical Physics</i> , 2020 , 538, 110897	2.3	8
295	Quantum chemical, experimental exploration of biological activity and inhibitory potential of new cytotoxic kochiosides from <i>Kochia prostrata</i> (L.) Schrad. <i>Journal of Theoretical and Computational Chemistry</i> , 2020 , 19, 2050012	1.8	5
294	Facile hydrothermal synthesis of highly efficient and visible light-driven Ni-doped V ₂ O ₅ photocatalyst for degradation of Rhodamine B dye. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 12913-12925	2.1	5
293	CO ₂ capturing, thermo-kinetic principles, synthesis and amine functionalization of covalent organic polymers for CO ₂ separation from natural gas: A review. <i>Journal of Natural Gas Science and Engineering</i> , 2020 , 77, 103203	4.6	33
292	NiMoO ₄ nanoparticles decorated carbon nanofiber membranes for the flexible and high performance glucose sensors. <i>Sensors and Actuators B: Chemical</i> , 2020 , 312, 127886	8.5	37
291	Equilibrium, kinetics and artificial intelligence characteristic analysis for Zn (II) ion adsorption on rice husks digested with nitric acid. <i>Paddy and Water Environment</i> , 2020 , 18, 455-468	1.6	3
290	A Temperature Sensor Based on Al/p-Si/CuCdO ₂ /Al Diode for Low Temperature Applications. <i>Journal of Electronic Materials</i> , 2020 , 49, 2317-2325	1.9	4
289	Thermal Conductivity of Multiwalled Carbon Nanotubes-Kapok Seed Oil-Based Nanofluid. <i>Chemical Engineering and Technology</i> , 2020 , 43, 1638-1647	2	2

288	Carbonic anhydrase and cholinesterase inhibitory activities of isolated flavonoids from <i>Oxalis corniculata</i> L. and their first-principles investigations. <i>Industrial Crops and Products</i> , 2020 , 148, 112285	5.9	12
287	Synthesis, Crystal Structure, and Nonlinear Optical Properties of Zn(II) Complex with 4,4',4''-Tri-tert-Butyl-2,2':6',2''-Terpyridine: A Dual Exploration. <i>Russian Journal of Inorganic Chemistry</i> , 2020 , 65, 368-377	1.5	1
286	Photocatalytic Inactivation of Bioaerosols: A Short Review on Emerging Technologies. <i>Current Analytical Chemistry</i> , 2020 , 17, 31-37	1.7	1
285	Chromenes: Phytomolecules with Immense Therapeutic Potential 2020 , 185-204		1
284	Exploration of optoelectronic, nonlinear and charge transport properties of hydroquinoline derivatives by DFT approach. <i>Materials Science-Poland</i> , 2020 , 38, 284-295	0.6	
283	Rubber-ceramic composites applicable in flexible antennas. <i>Journal of Polymer Engineering</i> , 2020 , 40, 666-675	1.4	
282	Synthesis, crystal structure, spectroscopic, electronic and nonlinear optical properties of potent thiazole based derivatives: Joint experimental and computational insight. <i>Journal of Molecular Structure</i> , 2020 , 1202, 127354	3.4	15
281	Waste paper derived three-dimensional carbon aerogel integrated with ceria/nitrogen-doped reduced graphene oxide as freestanding anode for high performance and durable microbial fuel cells. <i>Bioprocess and Biosystems Engineering</i> , 2020 , 43, 97-109	3.7	19
280	Synthesis and characterization of mesoporous MOF UMCM-1 for CO ₂ /CH ₄ adsorption; an experimental, isotherm modeling and thermodynamic study. <i>Microporous and Mesoporous Materials</i> , 2020 , 294, 109844	5.3	29
279	Characteristically Insights, Artificial Neural Network (ANN), Equilibrium, and Kinetic Studies of Pb(II) Ion Adsorption on Rice Husks Treated with Nitric Acid. <i>International Journal of Environmental Research</i> , 2020 , 14, 43-60	2.9	9
278	Experimental investigations on the regeneration of desulfurized 1-butyl-3-methylimidazolium tetrachloroferrate [Bmim][FeCl ₄] and 1-butyl-3-methylimidazolium thiocyanate [Bmim][SCN] ionic liquids: A raman spectroscopic study. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 546-554	2.3	3
277	Synthesis, characterization and quantum chemical study of optoelectronic nature of ferrocene derivatives. <i>Bulletin of Materials Science</i> , 2020 , 43, 1	1.7	11
276	Experimental investigation and modeling of the density, refractive index, and dynamic viscosity of 1-Propyrronitrile-3-Butylimidazolium Dicyanamide. <i>Journal of Molecular Liquids</i> , 2020 , 302, 112470	6	
275	Polymorphs of a copper coordination compound: interlinking active sites enhance the electrocatalytic activity of the coordination polymer compared to the coordination complex. <i>CrystEngComm</i> , 2020 , 22, 425-429	3.3	5
274	CO ₂ /CH ₄ adsorption over functionalized multi-walled carbon nanotubes; an experimental study, isotherms analysis, mechanism, and thermodynamics. <i>Microporous and Mesoporous Materials</i> , 2020 , 294, 109883	5.3	28
273	2PA and 3PA induced broadband limiting of Cr ³⁺ doped BaB ₂ O ₄ nanostructures. <i>Journal of Molecular Liquids</i> , 2020 , 298, 111996	6	2
272	Advances in nanostructured homojunction solar cells and photovoltaic materials. <i>Materials Science in Semiconductor Processing</i> , 2020 , 107, 104810	4.3	13
271	Natural rubberBased composites filled with bioglasses from a CaO-SiO ₂ -P ₂ O ₅ -Ag ₂ O system. Effect of Ag ₂ O concentration in the filler on composite properties. <i>Polymers for Advanced Technologies</i> , 2020 , 31, 574-588	3.2	2

270	Dopant-induced photoresponsivity in coumarin-dye-sensitized nanowire NiO/p-Si heterojunction. <i>Materials Science in Semiconductor Processing</i> , 2020 , 106, 104784	4.3	4
269	Influence of post-synthetic graphene oxide (GO) functionalization on the selective CO ₂ /CH ₄ adsorption behavior of MOF-200 at different temperatures; an experimental and adsorption isotherms study. <i>Microporous and Mesoporous Materials</i> , 2020 , 296, 110002	5.3	42
268	Vanadium Sulfide@Sulfur Composites as High-Performance Cathode for Advanced Lithium-Sulfur Batteries. <i>Energy Technology</i> , 2020 , 8, 1901163	3.5	13
267	Electron donating effect of amine groups on charge transfer and photophysical properties of 1,3-diphenyl-1H-pyrazolo[3,4-b]quinolone at molecular and solid state bulk levels. <i>Optik</i> , 2020 , 208, 164009	2.5	9
266	Exploration the effect of metal and electron withdrawing groups on charge transport and optoelectronic nature of schiff base Ni(II), Cu(II) and Zn(II) complexes at molecular and solid-state bulk scales. <i>Materials Science in Semiconductor Processing</i> , 2020 , 107, 104855	4.3	19
265	Cation effect on electronic, optical and thermoelectric properties of perovskite oxynitrides: Density functional theory. <i>Materials Science in Semiconductor Processing</i> , 2020 , 107, 104800	4.3	3
264	Synthesis, characterization and ampyrone drug release behavior of magnetite nanoparticle/2,3-dialdehyde cellulose-6-phosphate composite. <i>Cellulose</i> , 2020 , 27, 1603-1618	5.5	5
263	Separation of CO ₂ from Small Gas Molecules Using Deca-Dodecasil 3 Rhombohedral (DDR3) Membrane Synthesized via Ultrasonically Assisted Hydrothermal Growth Method. <i>Advances in Polymer Technology</i> , 2020 , 2020, 1-8	1.9	4
262	Exploring the impact of central core modifications among several push-pull configurations to enhance nonlinear optical response. <i>Journal of Molecular Graphics and Modelling</i> , 2020 , 100, 107665	2.8	15
261	Porous Titanium Oxide Microspheres as Promising Catalyst for Lithium-Oxygen Batteries. <i>Energy Technology</i> , 2020 , 8, 1901257	3.5	4
260	Zirconium-Ferrite Nanoparticles As Improved Adsorbent for Co ²⁺ , Cu ²⁺ , and Zn ²⁺ : Thermodynamic and Kinetic Studies. <i>Russian Journal of Physical Chemistry A</i> , 2020 , 94, 2797-2809	0.7	0
259	Highly Enhanced OER Activity of Amorphous Co ₃ O ₄ via Fabricating Hybrid Amorphous-Crystalline Gold Nanostructures. <i>ChemistrySelect</i> , 2020 , 5, 9357-9361	1.8	3
258	Energy storage performance of CoNiSe ₂ nanostructures. <i>Materials Letters</i> , 2020 , 279, 128485	3.3	1
257	Effect of Fe doping on optoelectronic properties of CdS nanostructure: Insights from DFT calculations. <i>Physica B: Condensed Matter</i> , 2020 , 583, 412056	2.8	6
256	Illumination impact on the electrical characteristics of Au/Sunset Yellow/n-Si/Au hybrid Schottky diode. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 14665-14673	2.1	14
255	Influence of interfacial layer parameters on gas transport properties through modeling approach in MWCNTs based mixed matrix composite membranes. <i>Chemical Engineering Science</i> , 2020 , 218, 115543	4.4	14
254	Improved fire resistance of boron nitride/epoxy intumescent coating upon minor addition of nano-alumina. <i>Materials Chemistry and Physics</i> , 2020 , 256, 123634	4.4	13
253	Experimental measurements of carbon dioxide, methane and nitrogen high-pressure adsorption properties onto Malaysian coals under various conditions. <i>Energy</i> , 2020 , 210, 118575	7.9	15

252	Exploration of electronic nature and intrinsic mobility of 10-(1,3-dithiol-2-ylidene)anthracene based organic semiconductor materials. <i>Optik</i> , 2020 , 224, 165530	2.5	9
251	Lead and cadmium removal from wastewater using eco-friendly biochar adsorbent derived from rice husk, wheat straw, and corncob. <i>Cleaner Engineering and Technology</i> , 2020 , 1, 100006	2.7	21
250	Synthesis, Structure Study, First-Principles Investigations and Luminescence Properties of Europium and Terbium Complexes. <i>Journal of Fluorescence</i> , 2020 , 30, 1345-1355	2.4	1
249	A Flexible Multiband Antenna for Biomedical Telemetry. <i>IETE Journal of Research</i> , 2020 , 1-14	0.9	0
248	Hole transport nature exploration of 4,4-Difluoro-8-(C ₄ H ₃ X)-4-bora-3a,4a-diaza-s-indacene (X = O, S, Se) (BODIPY) systems. <i>Molecular Simulation</i> , 2020 , 46, 1334-1339	2	5
247	Design and synthesis of organic dyes with various donor groups: promising dyes for dye-sensitized solar cells. <i>Bulletin of Materials Science</i> , 2020 , 43, 1	1.7	3
246	Chemical reduction of methylene blue in the presence of nanocatalysts: a critical review. <i>Reviews in Chemical Engineering</i> , 2020 , 36, 749-770	5	45
245	Photoresponsivity and photodetectivity properties of copper complex-based photodiode. <i>Journal of Molecular Structure</i> , 2020 , 1200, 127062	3.4	11
244	Structural parameters, electronic, linear and nonlinear optical exploration of thiopyrimidine derivatives: A comparison between DFT/TDDFT and experimental study. <i>Journal of Molecular Structure</i> , 2020 , 1201, 127183	3.4	34
243	Triphenylamine-based stimuli-responsive solid state fluorescent materials. <i>New Journal of Chemistry</i> , 2020 , 44, 8680-8696	3.6	24
242	Synthesis of new Schiff base copper conjugate for optically and electrochemically tuning of l-cysteine in cancer cells and bovine serum albumin. <i>Sensors and Actuators B: Chemical</i> , 2020 , 316, 128082	8.5	6
241	High-temperature CO ₂ removal from CH ₄ using silica membrane: experimental and neural network modeling 2019 , 9, 1010-1026		15
240	Linear, second and third order nonlinear optical properties of novel noncentrosymmetric donor-acceptor configure chalcone derivatives: A dual approach study. <i>Optik</i> , 2019 , 199, 163354	2.5	20
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