

أبحاث قسم الكيمياء 2023-2020

I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
8.2	R.M. Hassan, <u>Samia M. Ibrahim</u>	2023	International Journal of Biological Macromolecules 238, 124156	Innovative methodology for green synthesis of iridium nanoparticles of rod shapes by reduction of iridium (IV) using sustainable pectin with formation of keto-pectin derivatives.	.1
6.8	M.H. Abdel-Aziz, H.A. Maddah, M. Sh. Zoromba, <u>Ahmed F. Al-Hossainy</u>	2023	Alexandria Engineering Journal, 66, 475-488.	One-dimensional ternary conducting polymers blend with 9.26% power conversion efficiency for photovoltaic devices applications	.2
6.4	M.S. Zoromba, F. Alharbi, <u>Ahmed F. Al-Hossainy</u> , M.H. Abdel-Aziz	2023	Journal of Materials Research and Technology 23, 2852-2867	Preparation of hybrid conducting polymers blend nanocomposite for energy conversion using experimental data and TD-DFT/DMO13 computations	.3
6.2	<u>Samia M. Ibrahim</u> , <u>Ahmed F Al-Hossainy</u> , Mohamed Abd El-Aal	2023	Surfaces and Interfaces 36, 102598.	Novel synthesis of nitro-acriflavine dye thin film by kinetics and mechanism of oxidation of acriflavine hydrochloride by permanganate ion: Characterization, optical properties and TD-DFT	.4
6.2	A.R. Ghazy, O.M. Hemeda, <u>Ahmed F Al-Hossainy</u> , R. Ghazy, A.M.A. Henaish	2023	Surfaces and Interfaces 36, 102722.	Docking of COVID-19 Main Protease and TD-DFT/DMO13 Simulated method, Synthesis, and Characterization with hybrid nanocomposite thin films and its applications	.5
6.0	Sk Mehebab Rahaman, Madhuparna Chakraborty, Trishna Mandal, Sandip Kundu, Subhendu Dhibar, Dileep Kumar, <u>Samia M Ibrahim</u> , Manab Chakravarty, Bidyut Saha	2023	Journal of Molecular Liquids, 372, 121204	Mechanically tuned lanthanum carbonate nanorods in water-in-oil microemulsion scaffolds	.6
6.0	M Abd El-Aal, AEAA Said, MN Goda, EFA Zeid, <u>Samia M. Ibrahim</u>	2023	Journal of Molecular Liquids 385, 122317	Fe ₃ O ₄ @ CMC-Cu magnetic nanocomposite as an efficient catalyst for reduction of toxic pollutants in water.	.7
6.0	R. T. Mogharbel, <u>Ahmed F. Al-Hossainy</u> , <u>Ensaf A. Qasim</u> , <u>Asmaa Y. Wahman</u> , <u>Nasser Farhan</u> , <u>Samia M. Ibrahim</u>	2023	Journal of Molecular Liquids 386, 122491.	Synthesis, Structural, TD-DFT, and Optical Characteristics of Indole Derivative	.8
6.0	Nuha M.M. Alanazi, Ibrahim O. Althobaiti, Yasser A. El-Ossaily, Wael A.A. Arafa, Mohamed Y. El-Sayed, Hamud A. Altaieb, Hanaa Y. Ahmed, Mahmoud S. Tolba	2023	Arabian Journal of Chemistry 2023, 16 (3), 104543.	Green synthesis of some tetrahydroquinoline derivatives and evaluation as anticancer agents.	.9

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5.8	E.R. Kenawy, A.R. Ghazy, <u>Ahmed F. Al-Hossainy</u> , M. Bishr, M.M. Azzam	2023	Environmental Science and Pollution Research 30, 109250.	Synthesis, electrospinning, and molecular docking of poly (methyl methacrylate) Schiff bases and their applications as polymeric antimicrobial agents and for dye removal.	.10
5.235	Youness El Bakri, Basharat Ahmad, Kandasamy Saravanan, Iqar Ahmad, Etify A. Bakhite, <u>Osama Younis</u> , Safiyyah A. H. Al-Waleedy, Omaima F. Ibrahim, Ayman Nafady, Joel T. Mague, Shaaban K. Mohamed	2023	Journal of Biomolecular Structure and Dynamics	Insight into crystal structures and identification of potential styrylthieno[2,3-b]pyridine-2-carboxamidederivatives against COVID-19 Mpro through structure-guided modeling and simulation approach.	.11
5.1	A.R. Ghazy, <u>Ahmed F. Al-Hossainy</u> , M.M. El-Sheekh, M.E.M. Makhlof	2023	Algal Research 71, 103076	Investigating the differences in structure, morphology, optical properties, laser photoluminescence and dielectric properties for chitosan-doped commercial and Polycladia myrica mediated ZnO nanoparticles films combined with TD-DFT simulations.	.12
5.0	M.S. Zoromba, M.H. Abdel-Aziz, A.R. Ghazy, N. Salah, <u>Ahmed F. Al-Hossainy</u>	2023	Polymers 15, 1111	Polymeric Solar Cell with 19.69% Efficiency Based on Poly(o-phenylene diamine)/TiO2 composites.	.13
4.997	Abdel-Rahman El-Sayed, <u>Morad M. El-Hendawy</u> , Mohamed S. El-Mahdy, Fatma S. M. Hassan, Adila E. Mohamed	2023	Scientific Reports 13, 4812.	Inhibitive action of 2-mercaptobenzothiazole on the porosity of corrosion film formed on aluminum and aluminum-titanium alloy in hydrochloric acid solution	.14
4.326	<u>Nora S. Mohamed</u> , <u>Samia M. Ibrahim</u> , <u>Mahmoud M. Ahmed</u> , <u>Ahmed F. Al-Hossainy</u>	2023	Industrial & Engineering Chemistry Research 62, 4312–4327	Removal of toxic basic fuchsin dye from liquids by antibiotic azithromycin using adsorption, TD-DFT calculations, kinetic, and equilibrium studies.	.15
4.1	Mahmoud M Shaban, NM El Basiony, A Bahgat Radwan, <u>Emad E El-Katori</u> , Ahmed Abu-Rayyan, Nawal H Bahtiti, Moaz M Abdou	2023	ACS Omega 8, 33, 30068–30080	Electrochemical Investigation of C-Steel Corrosion Inhibition, In Silico, and Sulfate-Reducing Bacteria Investigations Using Pyrazole Derivatives	.16
4.07	E.A. Hassan, M.M. Mostafa, S.J. Smith, R. Harrison, M.M. Youssef, <u>Waleed H. Al-Assy</u>	2023	Applied Organometallic Chemistry 37, e7220	Structural variety of Co ²⁺ , Ni ²⁺ , Pd ²⁺ , and Pt ⁴⁺ complexes of a hydrazone based on Girard's T: Synthesis, spectroscopic, molecular docking simulation on CTX-M-14 β-lactamase, and theoretical (DFT) studies	.17

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3.925	Rahaman, S. M.; Bardhan, A.; Mandal, T.; Chakraborty, M.; Karmakar, K.; Dhibar, S.; Sharma, S.; Chakravarty, M.; <u>Samia M. Ibrahim</u> , Saha, B.	2023	New Journal of Chemistry 47, 10309-10321	Understanding the effect of surfactants' hydrophobicity on the growth of lanthanum sulfide nanospheres in water-in-oil microemulsions: a detailed dynamic light scattering, small angle X-ray scattering, and microscopy study.	.18
3.8	A. Geies, GS Gomaa, <u>Samia M. Ibrahim</u> , <u>Ahmed F. Al-Hossainy</u> , F.K. Abdelwadoud	2023	Journal of Molecular Structure 1291, 136050.	Experimental and simulated TD-DFT study of malachite green dye and tetrahydroquinoxaline hybrid blend: its application removal from wastewater.	.19
3.8	<u>Samia M. Ibrahim</u> , <u>Ahmed F. Al-Hossainy</u> , B. Saha, M. Abd El-Aal	2023	Journal of Molecular Structure, 1294, 136550	Kinetics and TD-DFT calculations of base-catalyzed oxidation of acriflavine hydrochloride: Removal of dyes colors from wastewater.	.20
3.8	Youness El Bakri, Atazaz Ahsin, Shaaban K. Mohamed, Etify A. Bakhite, <u>Osama Younis</u> , Safiyyah A.H. Al-Waleedy, Islam S. Marae, Joel T. Mague	2023	Journal of Molecular Structure, 1292, 136168	Synthesis, single crystal structure, NBO investigations, and Hirshfeld topology analysis of new ethyl-5,8-dimethyl-6-phenyl-(1H-pyrrol-1-yl)-6,7-dihydrothieno[2,3-c]isoquinoline-2-carboxylate	.21
3.8	Mohsen M. Mostafa, Hamed M. El-Shora , Haitham K. Elemam , <u>Waleed H. Al-Assy</u>	2023	Journal of Molecular Structure, 1279, 134963	Comparative and biological studies of Cu ²⁺ bicine and tricine chelates and their structures by single-crystal X-ray, DFT/B3LYP, and molecular docking studies.	.22
3.8	Mahmoud M. Hamed, <u>Mostafa Sayed</u> , Shawkat A. Abdel-Mohsen, Abdelreheem Abdelfatah Saddik, Omneya A. Ibrahim, Adel M. Kamal El-Dean, <u>Mahmoud S. Tolba</u>	2023	Journal of Molecular Structure 1273, 134371.	Synthesis, biological evaluation, and molecular docking studies of novel diclofenac derivatives as antibacterial agents.	.23
3.8	<u>Samia M. Ibrahim</u> , <u>Reda Hassanien</u> , <u>Zeinab A. Hassan</u> , <u>Waleed Al-Assy</u>	2023	Journal of Molecular Structure, 1286, 135605.	Synthesis of [NiONPs-Inulin] nanocomposite to use as adsorbent in the removal of poisonous thymol blue dye from liquids	.24
3.8	<u>Waleed H. Al-Assy</u> , Mohsen M. Mostafa	2023	Journal of Molecular Structure, 1273, 134262.	Novel complexes derived from tetra-(2-pyridyl) pyrazine (TPPZ): Spectroscopic, DFT, molecular docking, and biological studies	.25
3.8	M.G. Shalaby, A.M. AboZeid, Y.A.G. Mahmoud, <u>Ahmed F. Al-Hossainy</u> , S.S. Ali,	2023	Journal of Molecular Structure, 135119	Exploring the potential of [F. oxysporum/PSCO11Cu7] BNC as a novel copper-Fusarium oxysporum bio-hybrid nanocomposite for wastewater treatment.	.26

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3.754	A.A. Alturki, A. F. Alharbi, M. Sh. Zoromba, <u>Ahmed F. Al-Hossainy</u>	2023	Optical Materials 136, 113502	Polymeric solar cell with 18.06 % efficiency based on poly(para-nitroaniline)/TiO ₂ composites	.27
3.3	A. M. Henaish, O. M. Hemed, E.A. Arrasheed, R. M. Shalaby, A. R. Ghazy, I.A. Weinstein, M. A. Darwish, E. L. Trukhanova, A. V. Trukhanov, S. V. Trukhanov, <u>Ahmed F. Al-Hossainy</u> , N. A. Abdelhakim	2023	Journal of Composites Science 7, 61.	Tailoring Variations in the Microstructures, Linear/Nonlinear Optical, and Mechanical Properties of Dysprosium-Oxide-Reinforced Borate Glasses.	.28
3.140	Mohamed E. El-Khouly, Ahmed M. Kobaisy, Hanan Ahmed, <u>Morad M. El-Hendawy</u> , Mohsen Ghali, Waleed A. El-Said, Abdulllah S. Al-Bogami & Tarek Mohamed	2023	Optical and Quantum Electronics 55, 941	Femtosecond nonlinear optical properties of push-pull chromophores using Z-scan technique: experimental and computational studies.	.29
2.944	<u>Morad M. El-Hendawy</u> , Ibtisam M. Desoky, Mahmoud M. A. Mohamed, Henry J. Curran	2023	Journal of Physical Chemistry A.	Pyridinium-inspired organocatalysts for carbon dioxide fixation: A DFT Inspection.	.30
2.877	Amina Abozeed, <u>Mahmoud Tolba</u> , <u>Mostafa Sayed</u> , <u>Ahmed F Al-Hossainy</u> , <u>Osama Younis</u>	2023	Journal of Applied Physics, 133 (3), 033101	TD-DFT calculations and optical properties of a luminescent thiazolopyrimidine compound with different emission colors and uncommon blue shift upon aggregation	.31
2.856	N. Almutlaq, Mahmoud M. Elshanawany, <u>Mostafa Sayed</u> , <u>Osama Younis</u> , Mostafa Ahmed, Josef Wachtveitl, Markus Braun, <u>Mahmoud S. Tolba</u> , <u>Ahmed F. Al-Hossainy</u> , Amina A. Abozeed	2023	Current Applied Physics, 45, 86-98.	Synthesis, Structural, TD-DFT, and Optical Characteristics of Indole Derivative	.32
1.41	Samar A. Aly, Ayman Eldourghamy, Assmaa A. Megahed, <u>Ehab M. Abdalla</u> and Hussein H. Elganzory	2023	Journal of Applied Pharmaceutical Science, 13, 196-210.	Synthesis, spectroscopic characterization, thermal studies and molecular docking of novel Cr(III), Fe(III) and Co(II) complexes based on Schiff base: In vitro antibacterial and antitumor activities	.33
1.2	<u>Emad E El-Katori</u> , Ashraf S Abousalem	2023	Russian Journal of Electrochemistry 59,346-346.	Erratum to: Inhibitive Properties and Computational Approach of Organoselenides on Mild Steel Corrosion in Acidic Environment.	.34

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-	Rahaman, Sk. M.; Chakraborty, M.; Kundu, S.; Dhibar, S.; Kumar, D.; <u>Samia M. Ibrahim</u> , Chakravarty, M.; Saha, B.	2023	Journal of Hazardous Materials Advances, 11, 100348	Controlled synthesis of samarium trifluoride nanoparticles in a water-in-oil microemulsion: Effects of water-to-surfactant ratio on particles and phosphate removal.	.35
-	<u>Morad M. El-Hendawy</u>	2023	IGI Global Publishers Inc. Wisconsin, USA.	Chapter Book: A Computational Protocol for the Study or Design of Effective Organic Corrosion Inhibitors: An Overview, In Y. El Kacimi, and L. Guo (Eds.) Handbook of Research on Corrosion Sciences and Engineering (pp. 24-41)	.36
3.8	A. R. Ghazy, M. G. Shalaby, A. Ibrahim, A. ElShaer, Y. A-G. Mahmoud, <u>Ahmed F. Al-Hossainy</u>	2022	Journal of Molecular Structure, 1269, 133776	Synthesis, structural and optical properties of Fungal biosynthesized Cu2O nanoparticles doped Poly methyl methacrylate -co- Acrylonitrile copolymer nanocomposite films using experimental data and TD-DFT/DMO13 computations.	.37
4	A.R. Ghazy, <u>Ahmed F. Al-Hossainy</u> , H.F. Rizk, S. Shendy	2022	Synthetic Metals 291, 117206.	Synthesis, characterization, TD-DFT method, and optical properties of novel nanofiber conjugated polymer	.38
4.186	M. Ahmed, Y. M. Al-Hadeethi, A. Alshahrie, A. T. Kutbee, <u>Ahmed F. Al-Hossainy</u> , E. R. Shaaban	2022	Journal of the American Ceramic Society, 105, 7043-7052	The role of cobalt to control the synthesis of nanoscale Co/Uio-66 composite for photocatalysis	.39
3.841	<u>Samia M. Ibrahim</u> , <u>Ahmed F. Al-Hossainy</u> , B. Saha, M.A. El-Aal,	2022	Journal of Molecular Structure 1268, 133679.	Removal of bromothymol blue dye by the oxidation method using KMnO4: Accelerating the oxidation reaction by Ru (III) catalyst	.40
8.025	Refat M Hassan, <u>Samia M Ibrahim</u>	2022	International Journal of Biological Macromolecules, 221,1202-1208	Synthesis of keto-biomacromolecule derivatives by oxidation of carboxymethyl cellulose using alkaline hexacyanoferrate (III) for alternative applications in biotechnology	.41
2.035	Suzan Abuelhassan, Etify A. Bakhite, Abdu E. Abdel-Rahman, Ahmed F.M. El-Mahdy, Abdelreheem A. Saddik, Islam S. Marae, Shams H. Abdel-Hafez, <u>Mahmoud S. Tolba</u>	2022	Journal of Heterocyclic Chemistry 2022, 1-13.	Synthesis, photophysical properties, and biological activities of some new thienylpyridines, thienylthieno[2.3-b]pyridines and related fused heterocyclic compounds	.42
0.508	ElhamY. Hashem, Adel M. Kamal El-Dean, Mohamed S. Galal, <u>Mahmoud S. Tolba</u> .	2022	Journal of Water Chemistry and Technology 2022, 44 (5), 355.	Removal of Cefotaxime Antibiotic from Industrial Wasterwater via Forming a Complex with Fe (III)	.43

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
-	Adel M. Kamal El-dean, <u>Mahmoud S. Tolba</u> , Mohamed S. Galal, Najat O.A. Al-Salahi, Elham Y. Hashem	2022	Egyptian Sugar Journal 2022, 18, 53.	Detection of Ceftriaxone antibiotic and removal via complexation with Fe (III)	.44
4.132	Hazim M. Ali, Yasser A. El-Ossaily, Saoud A. Metwally, Ibrahim O. Althobaiti, Hamud A. Altaieb, Yousra A. Naffea, <u>Mahmoud S. Tolba</u>	2022	ACS Omega 2022, 7 (33), 29142.	Catalytic and Multicomponent Reactions for Green Synthesis of Some Pyrazolone Compounds and Evaluation as Antimicrobial Agents	.45
4.996	Amina Abozeed, <u>Osama Younis</u> , <u>Ahmed F. Al-Hossainy</u> , Nada Abd El-Mawla, <u>Mostafa Sayed</u> , Adel M. Kamal El-Dean, <u>Mahmoud S. Tolba</u>	2022	Scientific Reports12 (1), 1-16.	Combined experimental and TD-DFT/DMO13 investigations, optical properties, and photoluminescence behavior of a thiazolopyrimidine derivative.	.46
3.754	Amina Abozeed, <u>Mostafa Sayed</u> , <u>Osama Younis</u> , <u>Mahmoud S. Tolba</u> , <u>Reda Hassanien</u> , Adel M.Kamal El-Dean, <u>Samia M. Ibrahim</u> , Amira Salah, Amira Shakir, Reham El-Sayed, Yasser A. El-Ossaily, <u>Ahmed F. Al-Hossainy</u>	2022	Optical Materials, 131, 112594.	Characterization and optical behavior of a new indole Schiff base using experimental data and TD-DFT/DMO1 ³ computations	.47
2.478	Roaa T Mogharbel, <u>Ahmed F Al-Hossainy</u> , Ali Ibrahim, Mohamed Abd El-Aal, Mohamed Sh Zoromba, <u>Samia M Ibrahim</u> , <u>Asmaa Yahia</u> , <u>Nasser Farhan</u>	2022	Journal of Materials Science: Materials in Electronics,2022, 1-21	Synthesis, structural and optical characterizations of ZrO ₂ -bromothymol blue nanocomposite thin-film [ZrO ₂ + BTB] C and its application: experimental and TDD-DFT computations	.48
5.518	<u>Emad E. El-Katori</u> , M. Ahmed, H. Nady	2022	Colloids and Surfaces A: Physicochemical and Engineering Aspects 649, 129391.	Imidazole derivatives based on glycourils as efficient anti-corrosion inhibitors for copper in HNO ₃ solution: Synthesis, electrochemical, surface, and theoretical approaches	.49
6.212	<u>Emad E. El-Katori</u> , Rasha A. El-Saeed, Moaz M. Abdou	2022	Arabian Journal of chemistry, 15(12), 104373.	Anti-corrosion and anti-microbial evaluation of novel water-soluble bis pyrazole derivative for carbon steel pipelines in petroleum industries by experimental and theoretical studies.	.50

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3.84	<u>Reda Hassanien, Zeinab A Hassan, Waleed Al-Assy, Samia M Ibrahim</u>	2022	Journal of Molecular Structure, 1269, 133864	Removal of toxic thymol sulfone phthalein dye from wastewater by using efficient adsorbent NiO nanoparticles	.51
4.724	Hussein H. Elganzory, Safaa S. Hassan, Samar A. Aly and <u>Ehab M. Abdalla</u>	2022	Bioinorganic Chemistry and Applications	Synthesis, Characterization, PXRD Studies, Theoretical Calculation, and Antitumor Potency Studies of a Novel N,O-Multidentate Chelating Ligand and Its Zr(IV), V(IV), Ru(III), and Cd(II) Complexes	.52
1.751	Laila H. Abdel Rahman , Nabil Al-Zaqri , Amani A. Abdelghani and <u>Ehab M. Abdalla</u>	2022	Journal of Coordination Chemistry	Physicochemical, in vitro therapeutic activity, DNA-binding, and in silico molecular docking studies of samarium(III) complexes bearing N,O-chelated Schiff base ligands	.53
5.215	Doaa Abou El-ezz , Laila H. Abdel-Rahman, Badriah Saad Al-Farhan, Dalia A. Mostafa, Eman G. Ayad, Maram T. Basha, Mahmoud Abdelaziz and <u>Ehab M. Abdalla</u>	2022	Pharmaceuticals	Enhanced In Vivo Wound Healing Efficacy of a Novel Hydrogel Loaded with Copper (II) Schiff Base Quinoline Complex (CuSQ) Solid Lipid Nanoparticles	.54
1.58	<u>Ehab M. Abdalla</u> , M. T. Abd-Allah	2022	Egyptian Journal of Chemistry	Synthesis, Characterization, Antimicrobial/Antitumor Activity of Binary and Ternary Neodymium (III) Complex with 2,2'-((1E,1'E)-(ethane-1,2-diylbis(azaneylylidene)) bis(methaneylylidene)) diphenol and Imidazole	.55
1.043	<u>Emad E. El-Katori</u> , H. Nady	2022	Anti-Corrosion Methods and Materials 69(1), 71-80.	The inhibition activity of lemongrass extract (LGE) for mild steel acid corrosion: Electrochemical, surface, and theoretical investigations.	.56
2.397	H. Nady, Mosaad Negem, <u>Emad E. El-Katori</u>	2022	Surface Innovations 40, 1-17.	Anticorrosion and surface evaluation of Ni-Co-TiO ₂ coatings in 3.5 wt.% NaCl solutions.	.57
6.064	Alaa Attar, Rima D Alharthy, Mohammed Zwawi, Mohammed Algarni, Faisal Albatati, Mohamed Bassyouni, Mohamed Helmy Abdel-Aziz, Mohamed Shafick Zoromba, <u>Ahmed F Al-Hossainy.</u>	2022	Journal of Industrial and Engineering Chemistry, 109, 230-244.	Fabrication, characterization, TD-DFT, optical and electrical properties of poly (aniline-co-para nitroaniline)/ZrO ₂ composite for solar cell applications.	.58

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6.064	M Sh Zoromba, HA Maddah, MH Abdel-Aziz, <u>Ahmed F Al-Hossainy</u> .	2022	Journal of Industrial and Engineering Chemistry.	Physical structure, TD-DFT computations, and optical properties of hybrid nanocomposite thin film as optoelectronic devices.	.59
5.039	Moustafa Ahmed, Yas M Al-Hadeethi, Ahmed Alshahrie, Arwa T Kutbee, <u>Ahmed F Al-Hossainy</u> , Essam R Shaaban	2022	Journal of Materials and Technology, 18, 3492-3501.	Thermal analysis and non-isothermal crystallization kinetic of PET/UiO-66 nanocomposite.	.60
4.291	<u>Osama Younis</u> , <u>Ahmed F Al-Hossainy</u> , <u>Mostafa Sayed</u> , Adel M Kamal El-dean, <u>Mahmoud S Tolba</u> .	2022	Journal of Photochemistry and Photobiology A: Chemistry, 113992.	Synthesis and intriguing single-component white-light emission from oxadiazole or thiadiazole integrated with coumarin luminescent core.	.61
3.543	Maysa G Shalaby, <u>Ahmed F Al-Hossainy</u> , Alaa M Abo-Zeid, Hanan Mobark, Osama M Darwesh, Yehia A-G Mahmoud.	2022	Journal of Inorganic and Organometallic Polymers and Materials, 1-18.	Geotrichum candidum mediated [Cu ₈ O ₇ + P ₂ O ₅] nanocomposite bio fabrication, characterization, physicochemical properties, and its in-vitro biocompatibility evaluation.	.62
3.512	Eman M Sayed, <u>Reda Hassanien</u> , <u>Nasser Farhan</u> , Hanan F Aly, Khaled Mahmoud, Shaaban K Mohamed, Joel T Mague, Etify A Bakhite.	2022	ACS Omega, 7, 8767-8776.	Nitrophenyl-group-containing heterocycles. I. Synthesis, characterization, crystal structure, anticancer activity, and antioxidant properties of some new 5,6,7,8-tetrahydroisoquinolines bearing 3(4)-nitrophenyl group.	.63
3.512	<u>Osama Younis</u> , <u>Mostafa Sayed</u> , Ahmed AK Mohammed, <u>Mahmoud S Tolba</u> , <u>Reda Hassanien</u> , Adel M Kamal El-Dean, Osamu Tsutsumi, <u>Mostafa Ahmed</u> .	2022	ACS Omega, 7, 15016-15026.	Solid-state luminescent materials containing both indole and pyrimidine moieties: Design, synthesis, and density functional theory calculations.	.64
3.512	Hazim M Ali, Mohamed Abd El-Aal, <u>Ahmed F Al-Hossainy</u> , <u>Samia M Ibrahim</u> .	2022	ACS Omega, 7, 16109–16115.	Kinetics and mechanism studies of oxidation of dibromothymolsulfonphthalein toxic dye by potassium permanganate in neutral media with the synthesis of 2-bromo-6-isopropyl-3-methyl-cyclohexa-2,5-dienone.	.65
3.361	Hazim M Ali, <u>Samia M Ibrahim</u> , Essam F Abo Zeid, <u>Ahmed F Al-Hossainy</u> , Mohamed Abd El-Aal.	2022	RSC Advances, 12, 16496-16509.	A comparative study of Cu-anchored 0D and 1D ZnO nanostructures for the reduction of organic pollutants in water.	.66

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3.319	Mahmoud Tolba, Ahmed F Al-Hossainy, Adel M Kamal Eldean, Osama Younis.	2022	Asian Journal of Organic Chemistry, 11, e202100801.	From blue to green photoluminescence: Design, synthesis, and DFT calculations of heterocyclic compounds containing chromenothienopyrimidine moiety.	.67
3.196	Nora S Mohamed, Mahmoud M Ahmed, Asmaa Yahia, Samia M Ibrahim, Ahmed F Al-Hossainy.	2022	Journal of Molecular Structure, 1263, 133126.	Development of azithromycin-Pd mono nanocomposite: Synthesis, physicochemical, characterization and TD-DFT calculations.	.68
3.196	Howaida Mansour, Eman MF Abd El Halium, Najah FH Alrasheedi, M Sh Zoromba, Ahmed F Al-Hossainy.	2022	Journal of Molecular Structure, 1262, 133001.	Physical properties and DFT calculations of the hybrid organic polymeric nanocomposite thin film [P (An+ o-Aph)+ Glycine/TiO ₂] HNC with 7.42% power conversion efficiency.	.69
3.196	Maysa G Shalaby, Ahmed F Al-Hossainy, Alaa M Abo-Zeid, Hanan Mobark, Yehia AG Mahmoud	2022	Journal of Molecular Structure, 1259, 132643.	Synthesis, characterization, physicochemical properties, and in-vitro anti-bacterial evaluation for doped Fe-Fusarium oxysporum bio-nanocomposite	.70
3.196	Maysa G Shalaby, Ahmed F Al-Hossainy, Alaa M Abo-Zeid, Hanan Mobark, Yehia A-G Mahmoud.	2022	Journal of Molecular Structure, 1258, 132635.	Combined experimental thin film, DFT-TDDFT computational study, structure properties for [FeO+ P ₂ O ₅] bio-nanocomposite by Geotrichum candidum and environmental application.	.71
2.478	Eman MF Halium, Howaida Mansour, Najah Alrasheedi, Ahmed F Al-Hossainy.	2022	Journal of Materials Science: Materials in Electronics, 33, 10165-10182.	High-performance one and two-dimensional doped polypyrrole nanostructure for polymer solar cells applications.	.72
2.478	Howaida Mansour, Abd El Halium, MF Eman, Najah FH Alrasheedi, M Sh Zoromba, Ahmed F Al-Hossainy	2022	Journal of Materials Science: Materials in Electronics, 33, 5244-5264.	Combined experimental and TDDFT computational studies of the optical and electrical characteristic of luminol films-doped TiO ₂ with 9.027% power conversion efficiency.	.73
4.837	Mostafa F Al-Hakkani, Gamal A Gouda, Sedky HA Hassan, Mohamed Ahmed Mohamed, Mohamed, Adham M Nagiub	2022	Surfaces and Interfaces, 30, 101877.	Cefixime wastewater management via bioengineered Hematite nanoparticles and the in-vitro synergetic potential multifunction activities of Cefixime@ Hematite nanosystem.	.74

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
5.190	Atef Mohamed Gad Mohamed, <u>Mahmoud Mohamed Ahmed Mohamed</u> , Abd El Hay Ali Farrag, Al-Shimaa Roshdy Mohamed Ali.	2022	Environmental Science and Pollution Research, 29, 26850–26859.	Novel elimination method of iron and manganese ions from drinkable groundwater in Assiut, Egypt, by using sodalite-bearing modified illite.	.75
3.676	<u>Morad M El-Hendawy</u> , Asmaa M Kamel, <u>Mahmoud MA Mohamed</u> .	2022	Physical Chemistry Chemical Physics, 24, 743-756.	The anti-corrosive behavior of benzo-fused N-heterocycles: an in silico study toward developing organic corrosion inhibitors.	.76
6.165	HM El-Saeed, AS Fouda, MA Deyab, K Shalabi, MI Nessim, <u>Emad E El-Katori</u> .	2022	Journal of Molecular Liquids 358, 119177.	Synthesis and characterization of novel ionic liquids based on imidazolium for acid corrosion inhibition of aluminum: Experimental, spectral, and computational study.	.77
6.165	Moaz M Abdou, <u>Osama Younis</u> , <u>Emad E El-Katori</u> .	2022	Journal of Molecular Liquids, 119506.	Synthesis, experimental and theoretical studies of two aryl-azo derivatives clubbed with 2-acetylphenol and their application as novel luminescent coatings with high anticorrosion efficiency	.78
4.539	<u>Emad E El-Katori</u> , <u>Ensaf Aboul Kasim</u> , Doaa A Ali.	2022	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 636, 128153.	Sol-gel synthesis of mesoporous NiO/ZnO heterostructure nanocomposite for photocatalytic and anticorrosive applications in aqueous media.	.79
5.275	<u>Samia M Ibrahim</u> , <u>Nora Saad</u> , <u>Mahmoud M Ahmed</u> , Mohamed Abd El-Aal.	2022	Bioorganic Chemistry, 119, 105553.	Novel synthesis of antibacterial pyrone derivatives using kinetics and mechanism of oxidation of azithromycin by alkaline permanganate	.80
3.764	Refat M Hassan, <u>Samia M Ibrahim</u> .	2022	Industrial & Engineering Chemistry Research, 61, 6389–6397.	Mechanistic approach to the oxidation of poly (ethylene glycol) by potassium ferricyanide in basic media with the orientation on the type of transfer of electrons in the absence and presence of a Ru (III) catalyst.	.81

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
3.196	Sandra N Milik, Amal Kamal Abdel-Aziz, <u>Morad M El-Hendawy</u> , Riham I El-Gogary, Mona Kamal Saadeldin, Saverio Minucci, Christian D Klein, Khaled AM Abouzid.	2022	Journal of Molecular Structure, 1259, 132724.	Insights into the design of inhibitors of the EGFR family with anticancer activity overcoming resistance: A case of optimizing thieno [2, 3-d] pyrimidine-based EGFR inhibitors	.82
3.512	Ahmed I. A. Soliman, <u>Mostafa Sayed</u> , Mahmoud M. Elshanawany, <u>Osama Younis</u> , <u>Mostafa Ahmed</u> , Adel M. Kamal El-Dean, Aboel-Magd A. Abdel-Wahab, Josef Wachtveitl, Markus Braun, Pedram Fateh, Mahmoud S. Tolba.	2022	ACS Omega 7, 12, 10178–10186.	Base-free synthesis and photophysical properties of new Schiff bases containing indole moiety.	.83
3.196	Shaaban K Mohamed, Youness El Bakri, Dalia A Abdul, Sajjad Ahmad, Mustafa R Albayati, Chin-Hung Lai, Joel T Mague, <u>Mahmoud S Tolba</u> .	2022	Journal of Molecular Structure, 1265, 133391.	Synthesis, Crystal structure, and a molecular modeling approach to identify effective antiviral hydrazide derivative against the main protease of SARS-CoV-2.	.84
2.478	Essam R Shaaban, Mohamed A Osman, Ali A Osman, <u>Marwa M Sayed</u> , Kamal I Aly.	2022	Journal of Materials Science: Materials in Electronics, 33, 4051-4063.	Influential role of CdS film thickness in improving CdS/CdTe junction performance for solar cells: structural, optical, and electrical characterizations.	.85
2.826	<u>Mervat Ibrahim</u> , Mohamed I Said.	2022	International Journal of Environmental Analytical Chemistry, 1-19.	Mesoporous MnO ₂ polymorphs as sorbent materials for removal of cationic dyes from water.	.86
3.196	<u>Mostafa Ahmed</u> , SaKai, Y., Fukudome, M., Yuan, D.-Q.	2022	Journal of Molecular Structure, 1248, 131505.	Cucurbit[7]uril: Synthesis and quenching the quorum sensing in bacteria.	.87
5.190	Wang, T., <u>Husein, D.Z.</u>	2022	Environmental Science and Pollution Research, 1-28.	Novel synthesis of multicomponent porous nano-hybrid composite, theoretical investigation using DFT and dye adsorption applications: disposing of waste with waste.	.88

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
3.744	<u>Mahmoud S. Tolba</u> , Mahmoud M. Hamed, <u>Mostafa Sayed</u> , Adel M. Kamal El-Dean, Shawkat A. Abdel-Mohsen, Omneya A. Ibrahim, Walid A.M. Elgaher, Anna K.H. Hirsch, Abdelreheem Abdelfatah Saddik.	2022	Polycyclic Aromatic Compounds 2022, 1.	Design, Synthesis, Antimicrobial Activity, and Molecular Docking of Some New Diclofenac Derivatives	.89
0.278	Shaban A.A. Abdel-Raheem, Adel M. Kamal El-Dean, Mokhtar A. Abdul-Malik, Islam S. Marae, Etify A. Bakhite, <u>Reda Hassanien</u> , E.A. Mohamed El-Sayed, Remon M. Zaki, <u>Mahmoud S. Tolba</u> , Asmaa S.A. Sayed, Aly A. Abd-Ella	2022	Revue Roumaine de Chimie 2022, 67, 305.	Facile synthesis and pesticidal activity of substituted heterocyclic pyridine compounds	.90
0.872	Shaban A. A. Abdel-Raheem, Adel M. Kamal El-Dean, Mokhtar A. Abd ul-Malik, <u>Reda Hassanien</u> , Mohamed E. A. El-Sayed, Aly A. Abd-Ella, Sameh A. Zawam, <u>Mahmoud S. Tolba</u>	2022	Current Chemistry Letters 2022, 11(1), 23.	Synthesis of new distyrylpyridine analogues bearing amide substructure as effective insecticidal agents	.91
0.872	<u>Mahmoud S. Tolba</u> , Mokhtar A. ul-Malik, Adel M. Kamal El-Dean, Ahmed A. Geies, Shaban M. Radwan, Remon M. Zaki, <u>Mostafa Sayed</u> , Shaaban K. Mohamed, Shaban A. A. Abdel-Raheem	2022	Current Chemistry Letters 2022, 11(1), 29.	An overview on synthesis and reactions of coumarin based compounds	.92
0.872	<u>Mahmoud S. Tolba</u> , Adel M. Kamal El-Dean, <u>Mostafa Ahmed</u> , <u>Reda Hassanien</u> , <u>Mostafa Sayed</u> , Remon M. Zaki, Shaaban K. Mohamed, Sameh A. Zawam, Shaban A. A. Abdel-Raheem	2022	Current Chemistry Letters 2022, 11(1), 121.	Synthesis, reactions, and applications of pyrimidine derivatives	.93
3.744	<u>Mostafa Ahmed</u> , <u>Mostafa Sayed</u> , <u>Ahmed F. Saber</u> , <u>Reda Hassanien</u> , Adel M. Kamal El-Dean, <u>Mahmoud S. Tolba</u>	2022	Polycyclic Aromatic Compounds 2022, 42 (6), 3079	Synthesis, Characterization, and Antimicrobial Activity of New Thienopyrimidine Derivatives	.94
4.996	W. Jamshed, M.R. Eid, <u>Ahmed F. Al-Hossainy</u> , Z. Raizah, E.S.M. Tag El Din, T. Sajid	2022	Scientific Reports, 12, 1-23	Experimental and TDDFT materials simulation of thermal characteristics and entropy optimized of Williamson Cu-methanol and Al ₂ O ₃ -methanol nanofluid flowing through solar collector	.95

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
2.146	E.M.F. Halium, H. Mansour, N. Alrasheedi, <u>Ahmed F. Al-Hossainy</u>	2022	Chemical Papers, 76, 6175-6191.	TD-DFT calculations and two-dimensional poly (ortho phenylenediamine-co-meta-phenylene diamine) for polymeric solar cell applications	.96
5.190	A. Ibrahim, <u>Ahmed F. Al-Hossainy</u>	2022	Environmental Science and Pollution Research, 1-19	Study of the structural characteristics, optical properties, and electrical conductivity of doped [P(An-MMA)/ZrO ₂]TF nanofiber composite using experimental data and TD-DFT/DMol3 computations	.97
1.192	<u>Mahmoud S. Tolba</u> , <u>Mostafa Sayed</u> , <u>Adel M. Kamal El-Dean</u> , <u>Reda Hassanien</u> , <u>Shaban A. A. Abdel-Raheem</u> , <u>Mostafa Ahmed</u> .	2021	Organic Communications 2021, 14(4), 334.	Design, synthesis and antimicrobial screening of some new thienopyrimidines	.98
0.872	<u>Mahmoud S. Tolba</u> , <u>Mostafa Sayed</u> , <u>Shaban A. A. Abdel-Raheem</u> , <u>Taher A. Gaber</u> , <u>Adel M. Kamal El-Dean</u> , <u>Mostafa Ahmed</u>	2021	Current Chemistry Letters 2021, 10 (4), 471.	Synthesis and spectral characterization of some new thiazolopyrimidine derivatives	.99
1.510	Mohamed R Eid, Mohammed A Ali, <u>Ahmed F Al-Hossainy</u> .	2021	International Journal of Chemical Reactor Engineering, 19, 1135-1149.	Experimental characterization, TDDFT-DFT, and spin effect on [PEG/H ₂ O-ZrO ₂ /TiO ₂]h hybrid nanofluid 3D flow as potential ceramic industry application.	.100
5.164	Safwat A Mahmoud, <u>Ahmed F Al-Hossainy</u> , Essam R Shaaban.	2021	International Journal of Energy Research, 45, 20258-20269.	Effect of implanted copper into 1 μm cadmium telluride thick film by heat treatment for optoelectronics: Structural, optical, and electrical properties.	.101
2.443	Islam H El Azab, Adil A Gobouri, Tariq A Altalhi, HS El-Sheshtawy, N Almutlaq, Hisham A Maddah, M Sh Zoromba, MH Abdel-Aziz, M Bassyouni, A Ibrahim, Asma Alanazy, Bakheet Awad Alresheedi, <u>Ahmed F Al-Hossainy</u> .	2021	Optik, 247, 167971	Synthesis, characterization, DFT-TDDFT calculations and optical properties of a novel pyrazole-1, 2, 3-triazole hybrid thin film.	.102
2.097	M Zwawi, A Attar, <u>Ahmed F Al-Hossainy</u> , MH Abdel-Aziz, M Sh Zoromba.	2021	Chemical Papers, 75, 6575-6589.	Polypyrrole/functionalized multi-walled carbon nanotube composite for optoelectronic device application.	.103

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
3.196	OA El-Gammal, DA Saad, <u>Ahmed F. Al-Hossainy.</u>	2021	Journal of Molecular Structure, 1244, 130974.	Synthesis, spectral characterization, optical properties and X-ray structural studies of S centrosymmetric N ₂ S ₂ or N ₂ S ₂ O ₂ donor Schiff base ligand and its binuclear transition metal complexes.	.104
1.452	Islam H El Azab, A Ibrahim, M Abdel El-Moneim, M Sh Zoromba, Mohamed Helmy Abdel-Aziz, M Bassyouni, <u>Ahmed F Al-Hossainy.</u>	2021	Phase Transitions, 94, 794-814.	A combined experimental and TDDFT-DFT investigation of structural and optical properties of novel pyrazole-1, 2, 3-triazole hybrids as optoelectronic devices	.105
1.510	Mohamed R Eid, Mohammed A Ali, <u>Ahmed F Al-Hossainy.</u>	2021	International Journal of Chemical Reactor Engineering, 19, 1135-1149.	Experimental characterization, TDDFT-DFT, and spin effect on [PEG/H ₂ O-ZrO ₂ /TiO ₂] _n hybrid nanofluid 3D flow as potential ceramic industry application.	.106
3.196	IH El Azab, H Kh Thabet, Sh A Almotairi, MGA Saleh, RT Mogharbel, SA Mahmoud, AA El-Rayyes, A Ibrahim, M Sh Zoromba, MH Abdel-Aziz, <u>Samia M Ibrahim, Ahmed F Al-Hossainy.</u>	2021	Journal of Molecular Structure, 1241, 130640.	Synthesis of a novel coumarin heterocyclic derivative and fabrication of hybrid nanocomposite thin film with CoOFe ₂ O ₄ for optoelectronic applications.	.107
1.141	HM Diab, A Ibrahim, IH El Azab, MH Abdel-Aziz, M Sh Zoromba, M Bassyouni, <u>Ahmed F Al-Hossainy, SA El-Attar.</u>	2021	Radiation Effects and Defects in Solids, 176, 940-954.	HCl-doped poly (para-nitro aniline-co-para-toluidine) thin film as a gamma ray dosimeter.	.108
1.462	<u>Samia M Ibrahim, Ahmed F Al-Hossainy,</u> Mohamed Sh Zoromba, Islam H El Azab.	2021	International Journal of Chemical Kinetics, 53, 1101-1112.	Base-catalyzed oxidation of sugarcane molasses by potassium ferricyanide in alkaline solutions.	.109
1.917	Mohamed Helmy Abdel-Aziz, Elsayed Zakaria El-Ashtoukhy, Mohamed Bassyouni, <u>Ahmed Farouk Al-Hossainy,</u> Eman M Fawzy, Shereen Abdel-Hamid, Mohamed Shafick Zoromba.	2021	Carbon Letters, 31, 863-878.	DFT and experimental study on adsorption of dyes on activated carbon prepared from apple leaves.	.110

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
2.952	N Almutlaq, <u>Ahmed F. Al-Hossainy</u>	2021	Composite Interfaces, 28, 879-904.	Novel synthesis, structure characterization, DFT and investigation of the optical properties of diphenylphosphine compound/zinc oxide [DPPB+ ZnO] ^c nanocomposite thin film.	.111
3.196	Safwat A Mahmoud, <u>Ahmed F Al-Hossainy</u> , Essam R Shaaban.	2021	Journal of Molecular Structure, 1238, 130411.	Combined experimental and DFT-TDDFT computational, structural and study effect of inter-diffusion Cu into CdTe thick film by annealing for optoelectronics.	.112
4.853	<u>Ahmed F Al-Hossainy</u> , Mohamed R Eid.	2021	Waves in Random and Complex Media, 1-26.	Combined theoretical and experimental DFT-TDDFT and thermal characteristics of 3-D flow in rotating tube of [PEG + H ₂ O/SiO ₂ -Fe ₃ O ₄] ^c hybrid nanofluid to enhancing oil extraction.	.113
0.493	<u>Ahmed F Al-Hossainy</u> , Mohamed Sh Zoromba.	2021	POLYMER-KOREA, 45, 541-551	Synthesis, structural, time-dependent density-functional theory, thermal annealing and optical properties for doped polymer nanostructured thin films as optoelectronic devices.	.114
1.938	<u>Ahmed F. Al-Hossainy</u>	2021	Journal of Electronic Materials, 50, 3800-3813.	Combined experimental and TDDFT-DFT computation, characterization, and optical properties for synthesis of keto-bromothymol blue dye thin film as optoelectronic devices.	.115
2.097	<u>Ahmed A Al-Hossainy</u> , Ali Ibrahim, Roaa T Mogharbel, <u>Samia M Ibrahim</u> .	2021	Chemical Papers, 75, 3103-3118.	Synthesis of novel keto-bromothymol blue in different media using oxidation-reduction reactions: combined experimental and DFT-TDDFT computational studies.	.116
4.837	Mohamed R Eid, KL Mahny, <u>Ahmed F Al-Hossainy</u> .	2021	Surfaces and Interfaces, 24, 101119.	Homogeneous-heterogeneous catalysis on electromagnetic radiative Prandtl fluid flow: Darcy-Forchheimer substance scheme.	.117

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
معامل تأثير المجلة	أسماء المؤلفين	عام النشر	المجلة التي نشر فيها البحث	عنوان البحث بلغة النشر	.118
4.724	Mohamed R Eid, <u>Ahmed F Al-Hossainy</u> .	2021	Case Studies in Thermal Engineering, 25, 100983.	High-performance nanofluid synthesis and DFT-TDDFT study of graphene nanosheets along bent surface for enhanced oil-recovery implementations.	.119
6.064	MS Ahmed, TM Zewail, ES Z El-Ashtoukhy, HA Farag, IH El Azab, FA Albatati, <u>Ahmed F. Al-Hossainy</u> , M Sh Zoromba, MH Abdel-Aziz.	2021	Journal of Industrial and Engineering Chemistry, 97, 460-465.	Enhancement of heavy metals recovery from aqueous solutions by cementation on a rotating cylinder using a stationary wiper.	.120
1.462	<u>Ahmed F Al-Hossainy</u> , Samia M Ibrahim.	2021	International Journal of Chemical Kinetics, 53, 675-684.	Oxidation process and kinetics of bromothymol blue by alkaline permanganate.	.121
2.584	<u>Ahmed F Al-Hossainy</u> , Mohamed Sh Zoromba.	2021	Applied Physics A, 127, 1-14.	Fabrication, characterization and optical properties of poly (p-phenylenediamine-co-o-aminophenol) nanostructure thin film.	.122
4.837	<u>Ahmed F Al-Hossainy</u> , Mohamed R Eid.	2021	Surfaces and Interfaces, 23, 100971.	Combined experimental thin films, TDDFT-DFT theoretical method, and spin effect on [PEG-H ₂ O/ZrO ₂ +MgO] ^h hybrid nanofluid flow with higher chemical rate.	.123
3.196	N Almutlaq, <u>Ahmed F. Al-Hossainy</u> , M Sh Zoromba.	2021	Journal of Molecular Structure, 1227, 129712.	Combined experimental and theoretical study, characterization, and nonlinear optical properties of doped-poly (p-nitroaniline-co-o-aminophenol) thin films.	.124
2.478	A Bourezgui, <u>Ahmed F. Al-Hossainy</u> , IH El Azab, F Alresheedi, SA Mahmoud, M Bassyouni, MH Abdel-Aziz, M Sh Zoromba.	2021	Journal of Materials Science: Materials in Electronics, 32, 5489-5503.	Combined experimental and TDDFT computations for the structural and optical properties for poly (ortho phenylene diamine) thin film with different surfactants.	.125

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
3.017	<u>Ahmed F Al-Hossainy</u> , Amal Y Sediq, Safwat A Mahmoud.	2021	Electronic Materials Letters, 17, 188-206.	Combined experimental and DFT-TDDFT characterization studies of crystalline mesoporous-assembled [ZrO ₂] ^{NPs} and [DPPP+ Gly/ZrO ₂] ^C nanocomposite thin film.	.126
3.196	M Sh Zoromba, MH Abdel-Aziz, M Bassyouni, A Attar, <u>Ahmed F. Al-Hossainy</u> .	2021	Journal of Molecular Structure, 1225, 129131.	Synthesis and characterization of Poly (ortho-aminophenol-co-para-toluidine) and its application as semiconductor thin film.	.127
3.080	M Sh Zoromba, <u>Ahmed F. Al-Hossainy</u> , M Rzaigui, A Abdelkader, F Alresheedi, IH El Azab, Fayed M Eissa.	2021	Optical Materials, 112, 110758.	Facile synthesis of single-crystal of o-phenylene diamine dihydrochloride as a polychloride and fabrication of high-performance semiconductor thin film.	.128
4.329	Moustafa Ahmed, Yas M Al-Hadeethi, Ahmed Alshahrie, Arwa T Kutbee, Essam R Shaaban, <u>Ahmed F Al-Hossainy</u> .	2021	Polymers, 13, 4051.	Thermal analysis of a metal-organic framework Zn _x Co _{1-x} -ZIF-8 for recent applications.	.129
4.329	Alaa Attar, Rima D Alharthy, Mohammed Zwawi, Mohammed Algarni, Faisal Albatati, Mohamed Bassyouni, Mohamed Helmy Abdel-Aziz, Mohamed Shafick Zoromba, <u>Ahmed F Al-Hossainy</u> .	2021	Polymers, 13, 4045.	Fabrication and Characterization of Polypyrrole/Multi-Walled Carbon Nanotubes Thin Films Using Thermal Evaporation.	.130
3.080	M Sh Zoromba, AA Alshehri, <u>Ahmed F. Al-Hossainy</u> , MH Abdel-Aziz.	2021	Optical Materials, 111, 110621.	Doped-poly (anthranilic acid-co-o-phenylene diamine) thin film for optoelectronic applications.	.131
2.097	<u>Samia M Ibrahim</u> , <u>Ahmed F Al-Hossainy</u> .	2021	Chemical Papers, 75, 297-309.	Synthesis, structural characterization, DFT, kinetics and mechanism of oxidation of bromothymol blue: application to textile industrial wastewater treatment.	.132
3.196	<u>Ahmed F Al-Hossainy</u> , Reda M Abdelaal, Wesam N El Sayed.	2021	Journal of Molecular Structure, 1224, 128989.	Novel synthesis, structure characterization, DFT and investigation of the optical properties of cyanine dye/zinc oxide [4-CHMQI/ZnO] ^C nanocomposite thin film.	.133
2.007	Ahmed F Saber, <u>Mostafa Sayed</u> , <u>Mahmoud S Tolba</u> , Adel M Kamal El-Dean, <u>Reda Hassanien</u> , <u>Mostafa Ahmed</u> .	2021	Synthetic Communications, 51, 398-409.	A facile method for preparation and evaluation of the antimicrobial efficiency of various heterocycles containing thieno[2,3- <i>d</i>]pyrimidine.	.134

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
3.361	<u>Dalal Z Husein</u> , <u>Reda Hassanien</u> , Mona Khamis.	2021	RSC Advances, 11, 27027-27041.	Cadmium oxide nanoparticles/graphene composite: synthesis, theoretical insights into reactivity and adsorption study.	.135
4.412	<u>Morad M El-Hendawy</u> , Asmaa M Kamel, <u>Mahmoud Mohamed</u> , Rabah Boukherroub, Jacek Ryl, Mohammed A Amin.	2021	Molecules, 26, 6312.	Diaryl sulfide derivatives as potential iron corrosion inhibitors: A computational study.	.136
3.676	<u>Morad M El-Hendawy</u> , Ibtisam M Desoky, <u>Mahmoud MA Mohamed</u> .	2021	Physical Chemistry Chemical Physics, 23, 26919-26930.	A DFT-design of single component bifunctional organocatalysts for the carbon dioxide/propylene oxide coupling reaction.	.137
5.190	<u>Dalal Z Husein</u> , Mohammad Kashif Uddin, Mohammad Omaish Ansari, Sameh S Ahmed.	2021	Environmental Science and Pollution Research, 28, 28014-28023.	Green synthesis, characterization, application and functionality of nitrogen-doped MgO/graphene nanocomposite.	.138
6.165	H Nady, MM El-Rabiei, A Bahrawy, <u>Emad E El-Katori</u> .	2021	Journal of Molecular Liquids, 339, 116823.	Assessment of H ₂ O ₂ /albumin and glucose on the biomedical iron alloys corrosion in simulated body fluid: Experimental, surface, and computational investigations.	.139
6.165	<u>Emad E El-Katori</u> , MI Nessim, MA Deyab, K Shalabi.	2021	Journal of Molecular Liquids, 337, 116467.	Electrochemical, XPS and theoretical examination on the corrosion inhibition efficacy of stainless steel via novel imidazolium ionic liquids in acidic solution.	.140
3.196	Refat M Hassan, <u>Samia M Ibrahim</u> .	2021	Journal of Molecular Structure, 1246, 131180.	Performance and efficiency of methyl-cellulose polysaccharide as a green promising inhibitor for inhibition of corrosion of magnesium in acidic solutions	.141
1.967	Gaber AM Mersal, Mahmoud M Hessien, Rema Al Jouaid, <u>Morad M El-Hendawy</u> , Fahad M Alminderej, Mohamed M Ibrahim.	2021	Journal of the Chinese Chemical Society, 68, 2303-2311.	A molecular biomimetic sensor of tris (2-benzimidazolylmethyl) amine-based iron (III) complex for acrylamide detection: Electrochemical study and DFT calculations.	.142

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
5.816	Morad M El-Hendawy, Abd El-Motaleb M Ramadan, Mohamed M Ibrahim.	2021	International Journal of Hydrogen Energy, 46, 39786-39798.	Mechanistic insights on the catalytic hydrogenation of cyclohexene by ruthenium (III) N ₂ O ₂ tetradentate Schiff-base complex.	.143
2.161	Ashraf A El-Shehawy, Adel M Attia, Abdul-Rahman IA Abdallah, <u>Morad M El-Hendawy</u> .	2021	High Performance Polymers, 33, 712-726.	Synthesis, characterization, photophysical properties, and computational studies on <i>N</i> -hexylpheno thiazine/cyanopyridine based π -conjugated copolymers.	.144
3.097	Ashraf A El-Shehawy, <u>Morad M El-Hendawy</u> , Adel M Attia, Abdul-Rahman IA Abdallah, Nabiha I Abdo.	2021	Journal of Polymer Research, 28, 1-14.	Synthesis, photophysical properties, and computational studies of benzothiadiazole and/or phenothiazine based donor/acceptor π -conjugated copolymers.	.145
2.391	Ashraf A El-Shehawy, Mohamed E Abdu, <u>Morad M El-Hendawy</u> , Mohamed El-Khouly, Mohamed H Sherif, Hamed Y Moustafa.	2021	Journal of Physical Organic Chemistry, 34, e4158.	Synthesis, photophysical, and theoretical studies on π -conjugated copolymers based on benzothiadiazole and cyanopyridine acceptor moieties along with other π -bridge units.	.146
3.676	<u>Morad M El-Hendawy</u> , Ibtesam M Desoky, <u>Mahmoud MA Mohamed</u> .	2021	Physical Chemistry Chemical Physics, 23, 26919-26930.	A DFT-design of single component bifunctional organocatalysts for the carbon dioxide/propylene oxide coupling reaction.	.147
4.412	<u>Morad M El-Hendawy</u> , Asmaa M Kamel, <u>Mahmoud Mohamed</u> , Rabah Boukherroub, Jacek Ryl, Mohammed A Amin.	2021	Molecules, 26, 6312.	Diaryl sulfide derivatives as potential iron corrosion inhibitors: A computational study.	.148
2.589	Kyohei Hisano and Osamu Tsutsumi Hussain Sami, <u>Osama Younis</u> , Yui Maruoka, Kenta Yamaguchi, Kumar Siddhant.	2021	Crystals, 11, 1555.	Negative thermal quenching of photoluminescence from liquid-crystalline molecules in condensed phases.	.149
3.599	<u>Osama Younis</u> , Mohamed Abdel-Hakim, <u>Marwa M Sayed</u> , Osamu Tsutsumi, Kamal I Aly.	2021	Journal of Luminescence, 239, 118361.	Liquid crystal polymers as luminescent coatings: Single-component white-light photoluminescence and corrosion inhibition.	.150
4.889	<u>Osama Younis</u> , Hussain Sami, Yui Maruoka, Kyohei Hisano, Osamu Tsutsumi.	2021	Dyes and Pigments, 194, 109621.	Fascinating phenomena towards single-component white-light emission through luminescent thermochromism.	.151

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
4.889	Osama Younis, Osamu Tsutsumi.	2021	Dyes and Pigments 188, 109189	Single-component white-color photoluminescence from liquid crystal polymers: Color tuning by a combination of luminescence thermo-and mechanochromism.	.152
3.196	Mahmoud S Tolba, Ahmed M Sayed, Mostafa Sayed, Mostafa Ahmed	2021	Journal of Molecular Structure, 1246, 131179.	Design, synthesis, biological evaluation, and molecular docking of some new Thieno [2, 3-d] pyrimidine derivatives.	.153
0.796	Mahmoud M Hamed, Adel M Kamal El-Dean, Shawkat A Abdel-Mohsen, Mahmoud S Tolba.	2021	Russian Journal of Bioorganic Chemistry, 47, 208-220.	New diclofenac derivatives as anti-microbial, anti-inflammatory agents: Design, synthesis, biological screening, and molecular docking study.	.154
3.196	Laila H Abdel-Rahman, Shaaban K Mohamed, Youness El Bakri, Sajjad Ahmad, Chin-Hung Lai, Amer A Amer, Joel T Mague, Ehab M Abdalla.	2021	Journal of Molecular Structure, 1245,130997	Synthesis, crystal structural determination and in silico biological studies of 3, 3'-ethane-1, 2-diylbis (2-benzylidene-1, 3-thiazolidin-4-one.	.155
4.105	Laila H Abdel-Rahman, Maram T Basha, Badriah Saad Al-Farhan, Mohamed R Shehata, Ehab M Abdalla.	2021	Applied Organometallic Chemistry, e6484.	Synthesis, characterization, potential antimicrobial, antioxidant, anticancer, DNA binding, and molecular docking activities and DFT on novel Co(II), Ni(II), VO(II), Cr(III), and La(III) Schiff base complexes.	.156
4.412	Ehab M Abdalla, Safaa S Hassan, Hussein H Elganzory, Samar A Aly, Heba Alshater.	2021	Molecules, 26, 5851.	Molecular Docking, DFT Calculations, Effect of High Energetic Ionizing Radiation, and Biological Evaluation of Some Novel Metal (II) Heteroleptic Complexes Bearing the Thiosemicarbazone Ligand.	.157
4.412	Badriah Saad Al-Farhan, Maram T Basha, Laila H Abdel Rahman, Ahmed MM El-Saghier, Abou El-Ezz, Adel A Marzouk, Mohamed R Shehata, Ehab M Abdalla.	2021	Molecules, 26, 4725.	Synthesis, DFT calculations, antiproliferative, bactericidal activity and molecular docking of novel mixed-ligand salen/8-hydroxyquinoline metal complexes.	.158

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
3.975	Kamal I Aly, Hany M Abd El-Lateef, Nasr Yehia, A Khodairy, <u>Marwa M Sayed</u> , Mahmoud Abd El Aleem Ali Ali.	2021	Reactive and Functional Polymers, 166, 105001.	Novel polyesters based on indazole moiety: Synthesis, characterization and applicability as efficient inhibitors for acidic X-65-steel corrosion	.159
2.2	WA Mohammad, SM Ali, <u>Nasser Farhan</u> , SM Said	2021	Journal of Basic and Applied Zoology , 82 (34)	The toxic effect of zinc oxide nanoparticles on the terrestrial slug Lehmannia nyctelia (Gastropoda-Limacidae)	.160
3.196	M Sh Zoromba, <u>Ahmed F. Al-Hossainy</u> , SA Mahmoud, A Bourezgui, ER Shaaban.	2020	Journal of Molecular Structure, 1221, 128792.	Improvement of the thermal stability and optical properties for poly (ortho phenylene diamine) using soft templates.	.161
8.001	Hisham A Maddah, M Bassyouni, MH Abdel-Aziz, M Sh Zoromba, <u>Ahmed F. Al-Hossainy</u> .	2020	Renewable Energy, 162, 489-503.	Performance estimation of a mini-passive solar still via machine learning.	.162
3.627	Safwat A Mahmoud, Ashjan A Al-Dumiri, <u>Ahmed F Al-Hossainy</u> .	2020	Vacuum, 182, 109777.	Combined experimental and DFT-TDDFT computational studies of doped [PoDA+ PpT/ZrO ₂] C nanofiber composites and its applications.	.163
6.165	<u>Samia M Ibrahim, Ahmed F Al-Hossainy</u>	2020	Journal of Molecular Liquids, 318, 114041.	Kinetics and mechanism of oxidation of bromothymol blue by permanganate ion in acidic medium: application to textile industrial wastewater treatment.	.164
3.080	AAI Abed-Elmageed, M Sh Zoromba, Reda Hassanien, <u>Ahmed F Al-Hossainy</u> .	2020	Optical Materials, 109, 110378.	Facile synthesis of spin-coated poly (4-nitroaniline) thin film: structural and optical properties.	.165
2.478	<u>Ahmed F Al-Hossainy</u> , Mohamed R Eid	2020	Journal of Materials Science: Materials in Electronics, 31, 15243-15257.	Structure, DFT calculations and heat transfer enhancement in [ZnO/PG+ H ₂ O] C hybrid nanofluid flow as a potential solar cell coolant application in a double-tube.	.166

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
3.097	<u>Samia M Ibrahim</u> , Aymen Bourezgui, <u>Ahmed F Al-Hossainy</u> .	2020	Journal of Polymer Research, 27, 1-18.	Novel synthesis, DFT and investigation of the optical and electrical properties of carboxymethyl cellulose/thiobarbituric acid/copper oxide [CMC+ TBA/CuO] C nanocomposite film.	.167
3.080	H Kh Thabet, <u>Ahmed F. Al-Hossainy</u> , Mohd Imran	2020	Optical Materials, 105, 109915.	Synthesis, characterization, and DFT modeling of novel organic compound thin films derived from 2-amino-4-(2-hydroxy-3-methoxyphenyl)-4H-thiazolo[3,2-a][1,3,5]triazin-6(7H)-one.	.168
3.080	M Sh Zoromba, MA Tashkandi, AA Alshehri, MH Abdel-Aziz, M Bassyouni, SA Mahmoud, A Ben Slimane, <u>Ahmed F. Al-Hossainy</u> .	2020	Optical Materials, 104, 109947.	Polymer solar cell based on doped o-anthranilic acid and o-aminophenol copolymer.	.169
2.478	<u>Samia M Ibrahim</u> , A Bourezgui, AAI Abd-Elmageed, I Kacem, <u>Ahmed F Al-Hossainy</u> .	2020	Journal of Materials Science: Materials in Electronics, 31, 8690-8704.	Structural and optical characterization of novel [ZnKCMC] ^{TF} for optoelectronic device applications.	.170
3.196	MH Abdel-Aziz, M Sh Zoromba, M Bassyouni, M Zwawi, AA Alshehri, <u>Ahmed F Al-Hossainy</u>	2020	Journal of Molecular Structure, 1206, 127679	Synthesis and characterization of Co-Al mixed oxide nanoparticles via thermal decomposition route of layered double hydroxide.	.171
1.938	A Bourezgui, I Kacem, M Daoudi, <u>Ahmed F Al-Hossainy</u> .	2020	Journal of Electronic Materials, 49, 1904-1921.	Influence of gamma-irradiation on structural, optical and photocatalytic performance of TiO ₂ nanoparticles under controlled atmospheres.	.172
3.080	AAI Abd-Elmageed, <u>Ahmed F. Al-Hossainy</u> , EM Fawzy, N Almutlaq, Mohamed R Eid, A Bourezgui, SMS Abdel-Hamid, NB Elsharkawy, M Zwawi, MH Abdel-Aziz, M Bassyouni, AB Slimane, M Sh Zoromba.	2020	Optical Materials, 99, 109593.	Synthesis, characterization and DFT molecular modeling of doped poly (para-nitroaniline-co-para-toluidine) thin film for optoelectronic devices applications.	.173

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
3.591	AAI Abd-Elmageed, <u>Samia M Ibrahim</u> , A Bourezgui, <u>Ahmed F. Al-Hossainy</u> .	2020	New Journal of Chemistry, 44, 8621-8637.	Synthesis, DFT studies, fabrication, and optical characterization of the [ZnCMC] ^{TF} polymer (organic/inorganic) as an optoelectronic device.	.174
5.742	M Sh Zoromba, <u>Ahmed F. Al-Hossainy</u> .	2020	Solar Energy, 195, 194-209.	Doped poly (o-phenylenediamine-co-p-toluidine) fibers for polymer solar cells applications.	.175
1.67	<u>Mostafa Ahmed</u> , <u>Mostafa Sayed</u> , Ahmed F Saber, <u>Reda Hassanien</u> , Adel M Kamal El-Dean, <u>Mahmoud S Tolba</u> .	2020	Polycyclic Aromatic Compounds, 1-10.	Synthesis, characterization, and antimicrobial activity of new thienopyrimidine derivatives.	.176
3.512	<u>Mostafa Ahmed</u> , <u>Osama Younis</u> , Esam A Orabi, Ahmed M Sayed, Adel M Kamal El-Dean, <u>Reda Hassanien</u> , Rebecca L Davis, Osamu Tsutsumi, <u>Mahmoud S Tolba</u> .	2020	ACS Omega, 5, 29988-30000.	Synthesis of novel biocompatible thienopyrimidine chromophores with aggregation-induced emission sensitive to molecular aggregation.	.177
4.291	<u>Osama Younis</u> , <u>Mahmoud S Tolba</u> , Esam A Orabi, Adel M Kamal, <u>Reda Hassanien</u> , Osamu Tsutsumi, <u>Mostafa Ahmed</u> .	2020	Journal of Photochemistry and Photobiology A: Chemistry, 400, 112642.	Biologically-active heterocyclic molecules with aggregation-induced blue-shifted emission and efficient luminescence both in solution and solid states.	.178
4.889	<u>Osama Younis</u> , <u>Emad E El-Katori</u> , <u>Reda Hassanien</u> , Ashraf S Abousalem, Osamu Tsutsumi.	2020	Dyes and Pigments, 175, 108146.	Luminescent coatings: White-color luminescence from a simple and single chromophore with high anticorrosion efficiency.	.179
3.080	<u>Osama Younis</u> , Esam A Orabi, Adel M Kamal, <u>Mostafa Sayed</u> , <u>Reda Hassanien</u> , Rebecca L Davis, Osamu Tsutsumi, <u>Mostafa Ahmed</u> .	2020	Optical Materials, 100, 109713.	Aggregation-induced emission with white, envi, or blue luminescence from biologically-active indole derivatives.	.180
3.154	Abdelsalam Elawwad, Mostafa Ragab, Ahmed Hamdy, <u>Dalal Z Husein</u> .	2020	Journal of Water Reuse and Desalination, 10, 214-226.	Enhancing the performance of microbial desalination cells using δMnO_2 /graphene nanocomposite as a cathode catalyst.	.181

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
1.194	<u>Emad E El-Katori</u>	2020	Protection of Metals and Physical Chemistry of Surfaces, 56, 1081-1095.	The role of echium angustifolium mill extract in the corrosion mitigation of carbon steel in sulfuric acid solution.	.182
4.291	<u>Emad E El-Katori</u> , MA Ahmed, AA El-Bindary, Aly M Oraby.	2020	Journal of Photochemistry and Photobiology A: Chemistry, 392, 112403.	Impact of CdS/SnO ₂ heterostructured nanoparticle as visible light active photocatalyst for the removal methylene blue dye.	.183
-	<u>Emad E El-Katori</u> , AS Fouda, Rahma R Mohamed.	2020	Journal of the Chilean Chemical Society, 65, 4672-4681.	Synergistic corrosion inhibition activity of the chicoriumintybus extract and iodide ions for mild steel in acidic media.	.184
3.512	Ishaq A. Zaaferany Refat M. Hassan, <u>Samia M. Ibrahim</u> , Suzan A. Sayed	2020	ACS Omega, 5, 4424-4432.	Promising biocompatible, biodegradable, and inert polymers for purification of wastewater by simultaneous removal of carcinogenic Cr(VI) and present toxic heavy metal cations: Reduction of chromium(VI) by poly(ethylene glycol) in aqueous perchlorate solutions.	.185
1.67	Hideo Takagi, <u>Samia M. Ibrahim</u> , Refat Hassan.	2020	Journal of Renewable Materials, 8, 205-218.	Orientation on the mechanistics of electron-transfer on oxidation of chondroitin-4-sulfate as sustainable sulfated polysaccharide by permanganate ion in aqueous perchlorate solutions.	.186
2.391	Ashraf A El-Shehawy, Nabiha I Abdo, <u>Morad M El-Hendawy</u> , Abdul-Rahman IA Abdallah, Jae-Suk Lee.	2020	Journal of Physical Organic Chemistry, 33, e4063.	Dialkylthienosilole and N-alkyldithienopyrrole-based copolymers: Synthesis, characterization, and photophysical study.	.187
5.062	Hanaa Mansour, <u>Morad M El-Hendawy</u> .	2020	Molecular Catalysis, 484, 110774.	Mechanistic perspectives on piperidine-catalyzed synthesis of 1, 5-benzodiazepin-2-ones.	.188
1.967	Abd El-Motaleb M Ramadan, Shaban Y Shaban, Mohammed M Ibrahim, <u>Morad M El-Hendawy</u> , Hatem Eissa, Sami A Al-Harbi.	2020	Journal of the Chinese Chemical Society, 67, 135-151.	Copper (II) complexes containing pyridine-based and phenolate-based systems: Synthesis, characterization, DFT study, biomimetic catalytic activity of catechol oxidase and phenoxazinone synthase.	.189
3.097	<u>Osama Younis</u> Kamal I. Aly, Jingjiang Sun, Dirk Kuckling.	2020	Journal of Polymer Research, 27, 286.	Polyester resins based on soybean oil: synthesis and characterization.	.190

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I.F.	المؤلفين	العام	المجلة	عنوان البحث بلغة النشر	رقم
5.455	Kamal I Aly, <u>Marwa M Sayed</u> , Mohamed Gamal Mohamed, Shiao Wei Kuo, <u>Osama Younis</u> .	2020	Microporous and Mesoporous Materials, 298, 110063.	A facile synthetic route and dual function of network luminescent porous polyester and copolyester containing porphyrin moiety for metal ions sensor and dyes adsorption.	.191
4.105	Samar A Aly, Hussein H Elganzory, Mahmoud H Mahross, <u>Ehab M Abdalla</u> .	2020	Applied Organometallic Chemistry, 35, e6153.	Quantum chemical studies and effect of gamma irradiation on the spectral, thermal, X-ray diffraction and DNA interaction with Pd (II), Cu (I), and Cd (II) of hydrazone derivatives.	.192
4.105	<u>Ehab M Abdalla</u> , Laila H Abdel Rahman, Antar A Abdelhamid, Mohamed R Shehata, Asma A Alothman, Ayman Nafady.	2020	Applied Organometallic Chemistry, 34, e5912.	Synthesis, characterization, theoretical studies, and antimicrobial/antitumor potencies of salen and salen/imidazole complexes of Co (II), Ni (II), Cu (II), Cd (II), Al (III) and La (III).	.193
5.161	Kamal I Aly, Mohamed Gamal Mohamed, <u>Osama Younis</u> , Mahmoud H Mahross, Mohamed Abdel-Hakim, <u>Marwa M Sayed</u> .	2020	Progress in Organic Coatings, 138, 105385.	Salicylaldehyde azine-functionalized polybenzoxazine: Synthesis, characterization, and its nanocomposites as coatings for inhibiting the mild steel corrosion.	.194
4.105	Nagwa Abo El-Maali, <u>Asmaa Y Wahman</u> , Aref AM Aly, Ahmed Y Nassar, Douaa M Sayed.	2020	Applied Organometallic Chemistry, 34, e5594.	Anticancer activity of lanthanum (III) and europium (III) 5-fluorouracil complexes on Caco-2 cell line.	.195
4.315	Doaa A. Ali, <u>Emad E. El-Katori</u> , <u>Ensaf Aboul Kasim</u>	2020	Zeitschrift für Physikalische Chemie, 235(3), 239–263.	Sol-gel sonochemical Triton X-100 templated synthesis of Fe ₂ O ₃ /ZnO nanocomposites toward developing photocatalytic degradation for organic pollutant.	.196