



## بيان بالأبحاث العلمية للباحثين من أعضاء هيئة التدريس ومن في حكمهم بوحدة الطاقة المتجددة والمستدامة للعام ٢٠٢٠

م	عنوان البحث	سنة النشر	اسم المجلة ومعامل تأثيرها	Q	DOI
<b>Year 2019</b>					
1	Eco-friendly synthesized $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> heterojunction with enhanced visible light photocatalytic activity	2019	Journal of Photochemistry and Photobiology A: Chemistry IF=3.261	Q1	<a href="https://doi.org/10.1016/j.jphotochem.2019.111951">https://doi.org/10.1016/j.jphotochem.2019.111951</a>
2	Environment-Friendly Nanoporous Titanium Dioxide with Enhanced Photocatalytic Activity	2019	Catalysts IF=3.444	Q2	<a href="https://doi.org/10.3390/catal9100799">doi:10.3390/catal9100799</a>
3	Hexamethylene-1,6-bis(N-D-glucopyranosylamine) as a novel corrosion inhibitor for oil and gas industry: electrochemical and computational analysis	2019	New Journal of Chemistry IF=3.069	Q2	<a href="https://doi.org/10.1039/C9NJ90156F">https://doi.org/10.1039/C9NJ90156F</a>
4	Highly efficient corrosion inhibitor for C1020 carbon steel during acid cleaning in multistage flash (MSF) desalination plant	2019	Desalination IF=6.035	Q1	<a href="https://doi.org/10.1016/j.desal.2019.114100">https://doi.org/10.1016/j.desal.2019.114100</a>
5	Highly efficient Cu-phthalocyanine-sensitized ZnO hollow spheres for photocatalytic and antimicrobial applications	2019	Composites Part B: Engineering IF=6.864	Q1	<a href="https://doi.org/10.1016/j.compositesb.2019.107314">https://doi.org/10.1016/j.compositesb.2019.107314</a>
6	Hyperbolic correlation between the viscosity Arrhenius parameters at liquid phase of some pure Newtonian fluids and their normal boiling temperature	2019	Russ. J. Phy. Chem. A IF=0.581	Q4	<a href="https://doi.org/10.1134/S0036024420010239">10.1134/S0036024420010239</a>
7	Rationally designed Fe <sub>2</sub> O <sub>3</sub> /GO/WO <sub>3</sub> Z-Scheme photocatalyst for enhanced solar light photocatalytic water remediation	2019	Journal of Photochemistry and Photobiology A: Chemistry IF=3.261	Q1	<a href="https://doi.org/10.1016/j.jphotochem.2019.04.023">https://doi.org/10.1016/j.jphotochem.2019.04.023</a>
8	Synthesis of an Activatable Tetra-Substituted Nickel Phthalocyanines-4 (3H)-quinazolinone Conjugate and Its Antibacterial Activity	2019	Advances in Pharmacological Sciences	Q4	<a href="https://doi.org/10.1155/2019/5964687">https://doi.org/10.1155/2019/5964687</a>
9	Single step green synthesis of Au/ZnO/rGO nanocomposites for visible light photocatalytic application	2019	Materials Research Express IF=1.449	Q1	<a href="https://doi.org/10.1088/2053-1591/ab4967">https://doi.org/10.1088/2053-1591/ab4967</a>
10	Synthesis, crystal structures, second harmonic generation response and temperature phase transitions of two noncentrosymmetric Cu(II)-hybrid halides compounds: [(R)-C <sub>7</sub> H <sub>16</sub> N <sub>2</sub> ][CuX <sub>4</sub> ] (X = Cl or Br)	2019	Journal of Molecular Structure IF=2.12	Q2	<a href="https://doi.org/10.1016/j.molstruc.2019.01.035">https://doi.org/10.1016/j.molstruc.2019.01.035</a>
11	Theoretical and experimental investigation of two alkyl carboxylates as corrosion inhibitors for steel in acidic medium	2019	Journal of Molecular Liquids IF=4.561	Q1	<a href="https://doi.org/10.1016/j.molliq.2019.01.116">https://doi.org/10.1016/j.molliq.2019.01.116</a>
12	Ultrasound Synthesis of Benzimidazolo-1,3,5-triazine Derivatives and their Anti-histamine	2019	Oriental Journal of Chemistry IF=0.37	Q4	<a href="http://dx.doi.org/10.13005/ojc/350417">http://dx.doi.org/10.13005/ojc/350417</a>
13	ZnO@ porous graphite nanocomposite from waste for superior photocatalytic activity	2019	Environmental Science and Pollution Research IF=2.914	Q1	<a href="https://doi.org/10.1007/s11356-019-04684-3">doi: 10.1007/s11356-019-04684-3</a>



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14	TiO <sub>2</sub> /carbon dots decorated reduced graphene oxide composites from waste car bumper and TiO <sub>2</sub> nanoparticles for photocatalytic applications	2020	Arabian Journal of Chemistry IF=3.26	Q1	<a href="https://doi.org/10.1016/j.arabjc.2018.08.016">https://doi.org/10.1016/j.arabjc.2018.08.016</a>
15	Effective acid corrosion inhibitors for X60 steel under turbulent flow condition based on benzimidazoles: electrochemical, theoretical, SEM, ATR-IR and XPS investigations	2020	European Physical Journal Plus IF=2.61	Q1	<a href="https://link.springer.com/article/10.1140/epjp/s13360-020-00167-4">https://link.springer.com/article/10.1140/epjp/s13360-020-00167-4</a>
16	An Effective Invasive Therapeutic Approach of Fluoro-Substituted Zinc Phthalocyanine Derivatives as Potential Photosensitizer for Prostate Carcinoma	2020	ScienceAsia IF=0425	Q3	<a href="http://www.scienceasia.org/online/086-2020-0033.pdf">http://www.scienceasia.org/online/086-2020-0033.pdf</a>
17	Modified Non-Invasive Computational Methods of HIV Drug Combinations for Treatment of Coronavirus Disease-19 (COVID-19)	2020	Int J Virol AIDS	Q3	<a href="https://pdfs.semanticscholar.org/072f/8d44f2f603bd41864dc63b95d7354c94b686.pdf">https://pdfs.semanticscholar.org/072f/8d44f2f603bd41864dc63b95d7354c94b686.pdf</a>
18	TiO <sub>2</sub> /carbon dots decorated reduced graphene oxide composites from waste car bumper and TiO <sub>2</sub> nanoparticles for photocatalytic applications	2020	Arabian Journal of Chemistry IF=4.762	Q1	<a href="https://doi.org/10.1016/j.arabjc.2018.08.016">https://doi.org/10.1016/j.arabjc.2018.08.016</a>
19	Solar Photocatalytic and Antimicrobial Activity of Porous Indium Doped TiO <sub>2</sub> Nanostructure		Arabian Journal for Science and Engineering. IF=1.711	Q2	<a href="https://link.springer.com/article/10.1007/s13369-020-04957-x">https://link.springer.com/article/10.1007/s13369-020-04957-x</a>
20	Photocatalyst nanocomposite	2020	US Patent-16437614	Q1	<a href="https://patents.google.com/patent/US20200391190A1/en">https://patents.google.com/patent/US20200391190A1/en</a>
21	Zno-porous graphite composites, their use and manufacture	2020	US Patent-16400358	Q1	<a href="https://patents.google.com/patent/US20200346940A1/en">https://patents.google.com/patent/US20200346940A1/en</a>
22	Titania-carbon dot-reduced graphene oxide composites, their make, and use	2020	US Patent-16400405	Q1	<a href="https://patents.google.com/patent/US20200346187A1/en">https://patents.google.com/patent/US20200346187A1/en</a>
23	Effective acid corrosion inhibitors for X60 steel under turbulent flow condition based on benzimidazoles: electrochemical, theoretical, SEM, ATR-IR and XPS investigations	2020	European Physical Journal Plus IF=3.228	Q1	<a href="https://link.springer.com/article/10.1140/epjp/s13360-020-00167-4">https://link.springer.com/article/10.1140/epjp/s13360-020-00167-4</a>
24	Localized Corrosion and Mitigation Approach of Steel Materials Used in Oil and Gas Pipelines-An overview	2020	Engineering Failure Analysis IF=2.897	Q1	<a href="https://www.sciencedirect.com/science/article/pii/S1350630720308128">https://www.sciencedirect.com/science/article/pii/S1350630720308128</a>
25	Ionic liquids derived from $\alpha$ -amino acid ester salts as potent green corrosion inhibitors for mild steel in 1M HCl	2020	Journal of Molecular Liquids IF=5.065	Q1	<a href="https://www.sciencedirect.com/science/article/pii/S0167732220329883">https://www.sciencedirect.com/science/article/pii/S0167732220329883</a>
26	Experimental and Theoretical Insights into the Synergistic Effect of Iodide Ions and 1-Acetyl-3-Thiosemicarbazide on the Corrosion Protection of C1018 Carbon Steel in 1 M HCl	2020	Materials IF=3.057	Q1	<a href="https://doi.org/10.3390/ma13215013">https://doi.org/10.3390/ma13215013</a>
27	Synthesis, Crystal Structures and Characterization of Two Nonmetal Cation Tetrafluoroborates	2020	Crystals IF=2.404	Q2	<a href="https://www.mdpi.com/2073-4352/10/9/812">https://www.mdpi.com/2073-4352/10/9/812</a>