

Alya A Arabi

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

575
citations

687220

13
h-index

610775

24
g-index

25
all docs

25
docs citations

25
times ranked

655
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of external electric fields on double proton transfer kinetics in the formic acid dimer. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13738.	1.3	121
2	The bioisosteric similarity of the tetrazole and carboxylate anions: Clues from the topologies of the electrostatic potential and of the electron density. <i>European Journal of Medicinal Chemistry</i> , 2010, 45, 1868-1872.	2.6	65
3	Electron-density descriptors as predictors in quantitative structure-activity/property relationships and drug design. <i>Future Medicinal Chemistry</i> , 2011, 3, 969-994.	1.1	53
4	Atomic Partitioning of the Dissociation Energy of the P=O(H) Bond in Hydrogen Phosphate Anion (HPO ₄ ²⁻): Disentangling the Effect of Mg ²⁺ . <i>Journal of Physical Chemistry A</i> , 2007, 111, 8864-8872.	1.1	43
5	Effects of Intense Electric Fields on the Double Proton Transfer in the Watson-Crick Guanine-Cytosine Base Pair. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8631-8641.	1.2	38
6	Distribution of heavy metals in the coastal area of Abu Dhabi in the United Arab Emirates. <i>Marine Pollution Bulletin</i> , 2015, 97, 494-498.	2.3	35
7	Where is Electronic Energy Stored in Adenosine Triphosphate?. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3360-3368.	1.1	32
8	The influence of base pair tautomerism on single point mutations in aqueous DNA. <i>Interface Focus</i> , 2020, 10, 20190120.	1.5	29
9	Nonempirical density-functional theory for van der Waals interactions. <i>Canadian Journal of Chemistry</i> , 2010, 88, 1057-1062.	0.6	27
10	Artificial intelligence in drug design: algorithms, applications, challenges and ethics. <i>Future Drug Discovery</i> , 2021, 3, .	0.8	21
11	Routes to drug design via bioisosterism of carboxyl and sulfonamide groups. <i>Future Medicinal Chemistry</i> , 2017, 9, 2167-2180.	1.1	19
12	Assessment of the PW86+PBE+XDM density functional on van der Waals complexes at non-equilibrium geometries. <i>Journal of Chemical Physics</i> , 2012, 137, 014104.	1.2	14
13	Regional effects of streptozotocin-induced diabetes on shortening and calcium transport in epicardial and endocardial myocytes from rat left ventricle. <i>Physiological Reports</i> , 2016, 4, e13034.	0.7	14
14	Adenine-thymine tautomerization under the influence of strong homogeneous electric fields. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12406-12412.	1.3	11
15	Diastereoselective Additions of Allylmagnesium Reagents to $\hat{\pm}$ -Substituted Ketones When Stereochemical Models Cannot Be Used. <i>Journal of Organic Chemistry</i> , 2021, 86, 7203-7217.	1.7	11
16	The influence of external electric fields on proton transfer tautomerism in the guanine-cytosine base pair. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6252-6265.	1.3	10
17	Electrostatic potentials and average electron densities of bioisosteres in methylsquarate and acetic acid. <i>Future Medicinal Chemistry</i> , 2016, 8, 361-371.	1.1	8
18	Method Development for Selective and Nontargeted Identification of Nitro Compounds in Diesel Particulate Matter. <i>Energy & Fuels</i> , 2017, 31, 11615-11626.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Atomic and molecular properties of nonclassical bioisosteric replacements of the carboxylic acid group. <i>Future Medicinal Chemistry</i> , 2020, 12, 1111-1120.	1.1	4
20	Distribution of heavy metals around the Barakah nuclear power plant in the United Arab Emirates. <i>Environmental Science and Pollution Research</i> , 2017, 24, 19835-19851.	2.7	3
21	Rare Earth Elements Around the Barakah Nuclear Power Plant, UAE. <i>Natural Resources Research</i> , 2020, 29, 4149-4160.	2.2	3
22	Radiological baseline around the Barakah Nuclear Power Plant, UAE. <i>Arabian Journal of Chemistry</i> , 2021, 14, 103125.	2.3	3
23	Evaluating dispersion forces for optimization of van der Waals complexes using a non-empirical functional. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160145.	1.6	1
24	Binding energies of van der Waals complexes at non-equilibrium geometries. <i>Chemical Physics</i> , 2020, 529, 110545.	0.9	1