

Pradeep Kumar Shukla

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

430
citations

840585

11
h-index

752573

20
g-index

40
all docs

40
docs citations

40
times ranked

567
citing authors

#	ARTICLE	IF	CITATIONS
1	Ring Substituents Mediate the Morphology of PBDTTPD-PCBM Bulk-Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2014, 26, 2299-2306.	3.2	119
2	Reactions of DNA bases with the anti-cancer nitrogen mustard mechlorethamine: A quantum chemical study. <i>Chemical Physics Letters</i> , 2007, 449, 323-328.	1.2	30
3	H ₂ O ₃ as a Reactive Oxygen Species: Formation of 8-Oxoguanine from Its Reaction with Guanine. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4603-4615.	1.2	25
4	Catalytic Involvement of CO ₂ in the Mutagenesis Caused by Reactions of ONOO ⁻ with Guanine. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4779-4789.	1.2	25
5	Reactions of the OOH radical with guanine: Mechanisms of formation of 8-oxoguanine and other products. <i>Chemical Physics</i> , 2010, 375, 118-129.	0.9	16
6	Binding of Urea and Thiourea with a Barbiturate Derivative: Experimental and Theoretical Approach. <i>Journal of Physical Chemistry A</i> , 2010, 114, 97-104.	1.1	16
7	Repair of O ⁶ -methylguanine to guanine by cysteine in the absence and presence of histidine and by cysteine thiolate anion: a quantum chemical study. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8191.	1.3	15
8	Green synthesis, structural analysis and anticancer activity of dihydropyrimidinone derivatives. <i>RSC Advances</i> , 2021, 11, 35737-35753.	1.7	15
9	Reactions of guanine with methyl chloride and methyl bromide: O ⁶ -methylation versus charge transfer complex formation. <i>International Journal of Quantum Chemistry</i> , 2007, 107, 1270-1283.	1.0	14
10	O ⁶ -Methylguanine Repair by O ⁶ -Alkylguanine-DNA Alkyltransferase. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16285-16290.	1.2	14
11	A quantum chemical study of reactions of DNA bases with sulphur mustard: a chemical warfare agent. <i>Theoretical Chemistry Accounts</i> , 2010, 125, 269-278.	0.5	13
12	Effects of diameter, length, chirality and defects on the scavenging action of single-walled carbon nanotubes for OH radicals: A quantum computational study. <i>Chemical Physics</i> , 2010, 369, 101-107.	0.9	13
13	<i>meso</i> -Thiophenium Porphyrins and Their Zn(II) Complexes: A New Category of Cationic Photosensitizers. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 2041-2047.	1.3	13
14	Reactions of NO ₂ Cl with Imidazole: A Model Study for the Corresponding Reactions of Guanine. <i>Journal of Physical Chemistry B</i> , 2008, 112, 7925-7936.	1.2	11
15	Hydrogen atom abstraction reactions of the sugar moiety of 2'-deoxyguanosine with an OH radical: A quantum chemical study. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 2160-2169.	1.0	11
16	Improved electrostatic properties using combined Mulliken and hybridization-displaced charges for radicals. <i>Journal of Molecular Modeling</i> , 2008, 14, 631-640.	0.8	9
17	A quantum theoretical study of reactions of methyl diazonium ion with DNA base pairs. <i>Chemical Physics</i> , 2011, 388, 31-37.	0.9	8
18	Mechanisms of reactions of Ru(III)-based drug NAMI-A and its aquated products with DNA purine bases: a DFT study. <i>RSC Advances</i> , 2016, 6, 113620-113629.	1.7	8

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19	A DFT study of reactions of methyldiazonium ion with DNA/RNA nucleosides: Investigating effect of sugar moiety on methylation pattern of bases. International Journal of Quantum Chemistry, 2014, 114, 1637-1644.	1.0	7
20	Effect of axial ligands on the mechanisms of action of Ru(III) complexes structurally similar to NAMI-A: a DFT study. Structural Chemistry, 2020, 31, 679-689.	1.0	7
21	A theoretical characterization of reactions of HOOO radical with guanine: formation of 8-oxoguanine. Structural Chemistry, 2018, 29, 1109-1118.	1.0	6
22	Base pairing patterns of DNA base lesion spiroiminodihydantoin: A DFT study. International Journal of Quantum Chemistry, 2013, 113, 2600-2604.	1.0	5
23	Mechanism of methylation of 8-oxoguanine due to its reaction with methyldiazonium ion. Molecular Simulation, 2017, 43, 196-204.	0.9	5
24	Does 8-Nitroguanine Form 8-Oxoguanine? An Insight from Its Reaction with $\cdot\text{OH}$ Radical. Journal of Physical Chemistry B, 2018, 122, 1852-1861.	1.2	5
25	Synthesis of a Pyridone-Based Phthalimide Fleximer and Its Characterization and Supramolecular Property Evaluation. ACS Omega, 2022, 7, 24485-24497.	1.6	4
26	Photodynamic activity attained through the ruptured π -conjugation of pyridyl groups with a porphyrin macrocycle: synthesis and the photophysical and photobiological evaluation of 5-mono-(4-nitrophenyl)-10,15,20-tris-[4-(phenoxymethyl)pyridine]-porphyrin and its Zn(ii) complex. Photochemical and Photobiological Sciences, 2020, 19, 1776-1789.	1.6	3
27	Adsorption of HOOO. radical on pristine and doped graphene—a first-principles study. Structural Chemistry, 2021, 32, 1171-1179.	1.0	3
28	Radiation resistance of a cylindrical antenna radiating in weakly ionized plasma. International Journal of Electronics, 1972, 32, 147-152.	0.9	2
29	DNA Lesions Caused by ROS and RNOS: A Review of Interactions and Reactions Involving Guanine. , 2009, , 415-443.		2
30	Effective Collision Frequency and Radio Frequency Conductivity in the Magnetosphere. IETE Journal of Research, 1970, 16, 616-621.	1.8	1
31	Effect of plasma inhomogeneity and drifting plasma on synchrotron radiation from magnetoplasma. International Journal of Electronics, 1970, 29, 369-375.	0.9	1
32	Effect of the earth's conductivity on the radiation characteristics of monopole antenna. International Journal of Electronics, 1972, 32, 505-511.	0.9	1
33	Reflection of microwave through laboratory plasma. International Journal of Electronics, 1972, 33, 91-95.	0.9	1
34	Methylation of DNA bases by methyl free radicals: mechanism of formation of C8-methylguanine. Structural Chemistry, 2018, 29, 1333-1340.	1.0	1
35	A DFT study of reactions of Ru(III) anticancer drug KP1019 with 8-oxoguanine and 8-oxoadenine. Structural Chemistry, 2020, 31, 2087-2092.	1.0	1
36	Heating of Electrons in Weakly Ionized Plasma by Magnetic Perturbation. IETE Journal of Research, 1970, 16, 690-695.	1.8	0

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37	Effect of electron collisions on ÅEerenkov radiation from magnetoplasmaâ€. International Journal of Electronics, 1970, 28, 421-425.	0.9	0
38	Effect of N7-methylation on base pairing patterns of guanine: a DFT study. Journal of Molecular Modeling, 2021, 27, 184.	0.8	0
39	Formation of bifunctional cross-linked products due to reaction of NAMI-A with DNA bases â€“ a DFT study. Structural Chemistry, 2022, 33, 807-814.	1.0	0