Bachir Zouchoune

List of Publications by Year
in descending order

41	599	567281 15	677142 22
papers	citations	h-index	g-index

41	41	41	333
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Coordination Chemistry of Azulene: A Comprehensive DFT Investigation. Organometallics, 2010, 29, 1693-1706.	2.3	43
2	Theoretical investigation of the coordination of dibenzazepine to transition-metal complexes: A DFT study. Polyhedron, 2010, 29, 2722-2730.	2.2	29
3	Coordination diversity of the phenazine ligand in binuclear transition metal sandwich complexes: Theoretical investigation. Journal of Organometallic Chemistry, 2014, 770, 69-78.	1.8	29
4	The coordination of azepine to transition-metal complexes: A DFT analysis. Inorganica Chimica Acta, 2009, 362, 3541-3546.	2.4	28
5	Structural and spin diversity of M(indenyl)2 transition-metal complexes: a DFT investigation. New Journal of Chemistry, 2013, 37, 2293.	2.8	28
6	Molecular properties and electronic structure of phenazine ligand in binuclear molybdenum and manganese metal complexes: A density functional theory study. Polyhedron, 2013, 51, 123-131.	2.2	26
7	Synthesis, X-ray structure, theoretical investigation, corrosion inhibition and antimicrobial activity of benzimidazole thioether and theirs metal complexes. Polyhedron, 2016, 119, 248-259.	2.2	25
8	DFT and TD-DFT insights, photolysis and photocatalysis investigation of three dyes with similar structure under UV irradiation with and without TiO2 as a catalyst: Effect of adsorption, pH and light intensity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 190, 494-505.	3.9	25
9	Bonding analysis and electronic structure of transition metalâ€“benzoquinoline complexes: A theoretical study. Polyhedron, 2011, 30, 2644-2653.	2.2	23
10	Electronic structure of bis-azepine transition-metal complexes: A DFT investigation. Computational and Theoretical Chemistry, 2010, 953, 143-150.	1.5	21
11	Electronic structure and bonding analysis of transition metal sandwich and half-sandwich complexes of the triphenylene ligand. Canadian Journal of Chemistry, 2015, 93, 1096-1108.	1.1	21
12	Synthesis, spectroscopic characterization, crystal structure, DFT studies and biological activities of new hydrazone derivative: 1-(2,5-bis((E)-4-isopropylbenzylidene)cyclopentylidene)-2-(2,4-dinitrophenyl) hydrazine. Journal of Molecular Structure, 2020, 1213, 128203.	3.6	21
13	Coordination capabilities of anthracene ligand in binuclear sandwich complexes: DFT investigation. Structural Chemistry, 2016, 27, 1781-1792.	2.0	17
14	Electronic structure and UVâ€“Vis spectra simulation of square planar Bis(1-(4-methylphenylazo)-2-naphtol)-Transition metal complexes [M(L)2]x (Mâ€‰=â€‰Ni, Pd, Pt, Cu, Ag, and) Tj ET Q q 0 0 0 rgBT /Ove	2.0	17
15	Electronic structure and coordination chemistry of phenanthridine ligand in firstâ€row transition metal complexes: A DFT study. International Journal of Quantum Chemistry, 2013, 113, 985-996.	2.0	16
16	Structural diversity of homobinuclear transition metal complexes of the phenazine ligand: theoretical investigation. Structural Chemistry, 2018, 29, 725-739.	2.0	16
17	Electronic structure and vibrational frequencies in dehydroacetic acid (DHA) transition-metal complexes: A DFT study. Computational and Theoretical Chemistry, 2010, 945, 78-84.	1.5	15
18	Coordination chemistry of mixed M(benzene)(cyclopendadienyl) sandwich complexes: electronic properties and bonding analysis. New Journal of Chemistry, 2016, 40, 2554-2564.	2.8	15

#	Article	IF	Citations
19	Why is bis-indenylchromium a dimer? A DFT investigation. Journal of Organometallic Chemistry, 2018, 858, 47-52.	1.8	14
20	Substitution effects and electronic properties of the azo dye (1-phenylazo-2-naphthol) species: a TD-DFT electronic spectra investigation. Canadian Journal of Chemistry, 2015, 93, 509-517.	1.1	13
21	Theoretical and experimental study of gold(III), palladium(II), and platinum (II) complexes with 3-((4-nitrophenyl)thio)phenylcyanamide and 2,2â€²-bipyridine ligands: Cytotoxic activity and interaction with 9-methylguanine. Inorganica Chimica Acta, 2020, 499, 119211.	2.4	13
22	Molecular structure, bonding analysis and redox properties of transition metalâ€“Hapca [bis(3-aminopyrazine-2-carboxylic acid)] complexes: A theoretical study. Polyhedron, 2015, 91, 59-67.	2.2	12
23	Coordination chemistry and bonding analysis of tetranuclear transition metal pyrene sandwich complexes. Structural Chemistry, 2017, 28, 985-997.	2.0	11
24	Electronic structure and energy decomposition of binuclear transition metal complexes containing Î²-diketiminate and imido ligands: spin state and metalâ€™s nature effects. Structural Chemistry, 2018, 29, 1307-1320.	2.0	11
25	Structural, bonding and redox properties of 34-electron bimetallic complexes and their oxidized 32- and 33-electron and reduced 35- and 36-electron derivatives containing the indenyl fused Ï€-system: A DFT overview. Polyhedron, 2019, 160, 219-228.	2.2	11
26	Experimental and theoretical investigation of cyclometallated platinum(<scp>ii</scp>) complex containing adamantanemethylcyanamide and 1,4-naphthoquinone derivative as ligands: synthesis, characterization, interacting with guanine and cytotoxic activity. RSC Advances, 2019, 9, 287-300.	3.6	10
27	Electronic structure and structural diversity in indenyl in heterobinuclear transition-metal half-sandwich complexes. Theoretical Chemistry Accounts, 2018, 137, 1.	1.4	9
28	Stability and possible multiple metal-metal bonding in tetranuclear sandwich complexes of cyclooctatetraene ligand. Structural Chemistry, 2018, 29, 937-945.	2.0	8
29	Ligandsâ€™ Ïƒ-donation and Ï€-backdonation effects on metal-metal bonding in trinuclear [M3(Tr)2(L)3]2+ (Mâ€“Fe, Ni, Pd, Pt, Trâ€“tropylium and Lâ€“CO, HCN and C2H4) sandwich compounds: Theoretical investigation. Inorganica Chimica Acta, 2018, 473, 204-215.	2.4	7
30	Bonding and electronic structures in dinuclear (X)[(Ind)M2L2] complexes (Mâ€‰=â€‰Ni, Pd, Lâ€‰=â€‰CO, PEt3, Xâ€‰=â€‰Cl,) Chemistry Accounts, 2020, 139, 1.	1.4	7
31	Understanding the chemical bonding in sandwich complexes of transition metals coordinated to nine-membered rings: energy decomposition analysis and the donorâ€“acceptor charge transfers. Theoretical Chemistry Accounts, 2021, 140, 1.	1.4	7
32	Tenâ€Electron Donor Indenyl Anion in Binuclear Transitionâ€Metal Sandwich Complexes: Electronic Structure and Bonding Analysis. ChemistrySelect, 2016, 1, 940-948.	1.5	6
33	Synthesis, X-ray structure, in silico calculation, and carbonic anhydrase inhibitory properties of benzylimidazole metal complexes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1150-1159.	5.2	6
34	Synthesis, structural characterization, DFT calculations and biological properties of mono- and dinuclear nickel complexes with tetradentate transformed ligands by aerobic oxidative-coupling reactions. Inorganica Chimica Acta, 2019, 497, 119085.	2.4	6
35	Coordinationâ€™s preference and electronic structure of N-heterocyclic carbeneâ€“monometallic complexes: DFT evaluation of Ïƒ-bonding and Ï€-backbonding interactions. Theoretical Chemistry Accounts, 2020, 139, 1.	1.4	6
36	Coordination and ligandsâ€™ effects in trinuclear [Pd3(COT)2(L)]2+ (L = H2O, CO, N2, HCN, HNC, NH3, PH3,) Tj ETQq0 0 0 rgBT /Overl Chemistry, 2019, 30, 2339-2346.	2.0	5

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37	DFT investigation of homotrinuclear and heterotrinuclear [M3(Phz)2], [MMâ€²2(Phz)2], [M3(CO)2(Phz)2], [MMâ€²2(CO)2(Phz)2] sandwich complexes (Mâ€‰=â€‰Ti, Cr, Fe and Ni; Mâ€²â€‰=â€‰V and Mn, Phzâ€‰=â€‰C12H8N2): p[illegible] models and electronic structures. Structural Chemistry, 2019, 30, 1859-1871.	2.0	5
38	How the ascorbic acid and hesperidin do improve the biological activities of the cinnamon: theoretical investigation. Structural Chemistry, 2020, 31, 2333-2340.	2.0	5
39	Synthesis, spectroscopic characterization, crystal structure and theoretical investigation of two azo-palladium (II) complexes derived from substituted (1-phenylazo)-2-naphtol. Transition Metal Chemistry, 2021, 46, 91-101.	1.4	5
40	Electron transfersâ€™ assessment between stannol ring of triple-decker complexes and M(CO)5 (MÂ=ÂCr,) Tj ETQq0 0 0 rgBT /Overlock Polyhedron, 2022, 223, 115960.	2.2	5
41	Theoretical investigation on the biological activities of ginger and some of its combinations: an overview of the antioxidant activity. Structural Chemistry, 2021, 32, 1659-1672.	2.0	2