Kaan Atak

List of Publications by Year
in descending order

28 papers	528 citations	687363 13 h-index	642732 23 g-index
29 all docs	29 docs citations	29 times ranked	950 citing authors

#	Article	IF	Citations
1	Chemical Bonding in Aqueous Ferrocyanide: Experimental and Theoretical X-ray Spectroscopic Study. Journal of Physical Chemistry B, 2014, 118, 1555-1563.	2.6	61
2	Direct Observation of Molecular Orbital Mixing in a Solvated Organometallic Complex. Angewandte Chemie - International Edition, 2013, 52, 9841-9844.	13.8	60
3	Nature of the Chemical Bond of Aqueous Fe2+ Probed by Soft X-ray Spectroscopies and ab Initio Calculations. Journal of Physical Chemistry B, 2013, 117, 12613-12618.	2.6	44
4	Electronic structural insights into efficient MnO_xcatalysts. Journal of Materials Chemistry A, 2014, 2, 18199-18203.	10.3	40
5	Joint Analysis of Radiative and Non-Radiative Electronic Relaxation Upon X-ray Irradiation of Transition Metal Aqueous Solutions. Scientific Reports, 2016, 6, 24659.	3.3	38
6	Probing Costerâ€“Kronig Transitions in Aqueous Fe²⁺ Solution Using Inverse Partial and Partial Fluorescence Yield at the L-Edge. Journal of Physical Chemistry Letters, 2012, 3, 1619-1623.	4.6	36
7	DMSOâ€“Water Clustering in Solution Observed in Soft X-ray Spectra. Journal of Physical Chemistry Letters, 2012, 3, 3697-3701.	4.6	30
8	Undistorted X-ray Absorption Spectroscopy Using s-Core-Orbital Emissions. Journal of Physical Chemistry A, 2016, 120, 2808-2814.	2.5	21
9	Site-Selective Dissociation upon Sulfur L-Edge X-ray Absorption in a Gas-Phase Protonated Peptide. Journal of Physical Chemistry Letters, 2020, 11, 1215-1221.	4.6	20
10	Electronic Structure of Aqueous [Co(bpy)₃]^{2+/3+} Electron Mediators. Inorganic Chemistry, 2019, 58, 4731-4740.	4.0	17
11	Electronic Structure of Hemin in Solution Studied by Resonant X-ray Emission Spectroscopy and Electronic Structure Calculations. Journal of Physical Chemistry B, 2014, 118, 9938-9943.	2.6	16
12	Local electronic structure of aqueous zinc acetate: oxygen K-edge X-ray absorption and emission spectroscopy on micro-jets. Physical Chemistry Chemical Physics, 2013, 15, 8046.	2.8	14
13	Ti³⁺ Aqueous Solution: Hybridization and Electronic Relaxation Probed by State-Dependent Electron Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 10607-10615.	2.6	14
14	Chemical bonding in aqueous hexacyano cobaltate from photon- and electron-detection perspectives. Scientific Reports, 2017, 7, 40811.	3.3	14
15	The Chemical Bond in Carbonyl and Sulfinyl Groups Studied by Soft Xâ€ray Spectroscopy and ab Initio Calculations. ChemPhysChem, 2012, 13, 3106-3111.	2.1	12
16	Co(iii) protoporphyrin IX chloride in solution: spin-state and metal coordination revealed from resonant inelastic X-ray scattering and electronic structure calculations. Physical Chemistry Chemical Physics, 2015, 17, 3409-3414.	2.8	12
17	Local Energy Gap Opening Induced by Hemin Dimerization in Aqueous Solution. Journal of Physical Chemistry B, 2015, 119, 3058-3062.	2.6	11
18	Influence of the Outer Ligands on Metal-to-Ligand Charge Transfer in Solvated Manganese Porphyrins. Inorganic Chemistry, 2016, 55, 22-28.	4.0	10

#	Article	IF	Citations
19	Intermolecular bonding of hemin in solution and in solid state probed by N K-edge X-ray spectroscopies. Physical Chemistry Chemical Physics, 2015, 17, 29000-29006.	2.8	9
20	Assistance of the Iron Porphyrin Ligands to the Binding Interaction between the Fe Center and Small Molecules in Solution. Journal of Physical Chemistry B, 2014, 118, 9371-9377.	2.6	7
21	Fluorination-dependent molecular orbital occupancy in ring-shaped perfluorocarbons. Physical Chemistry Chemical Physics, 2015, 17, 18337-18343.	2.8	6
22	Analysis of the Electronic Structure of Aqueous Urea and Its Derivatives: A Systematic Soft Xâ€Rayâ€“TDâ€DFT Approach. Chemistry - A European Journal, 2016, 22, 12040-12049.	3.3	6
23	Mimicking cellular phospholipid bilayer packing creates predictable crystalline molecular metalâ€“organophosphonate macrocycles and cages. CrystEngComm, 2018, 20, 2152-2158.	2.6	6
24	BokarevetÂal.Reply. Physical Review Letters, 2014, 112, 129303.	7.8	5
25	Probing Structural Information of Gas-Phase Peptides by Near-Edge X-ray Absorption Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2021, 32, 670-684.	2.8	5
26	Impacts of Conformational Geometries in Fluorinated Alkanes. Scientific Reports, 2016, 6, 31382.	3.3	4
27	Chaoticity analysis of the current through pure, hydrogenated and hydrophobically modified PEG-Si thin films under varying relative humidity. Open Physics, 2009, 7, .	1.7	3
28	The electronic structure and deexcitation pathways of an isolated metalloporphyrin ion resolved by metal L-edge spectroscopy. Chemical Science, 2021, 12, 3966-3976.	7.4	3