

Sergio Manzetti

List of Publications by Year in descending order

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58
papers

2,793
citations

331670
21
h-index

182427
51
g-index

64
all docs

64
docs citations

64
times ranked

3776
citing authors

#	ARTICLE	IF	CITATIONS
1	Wavefunction and reactivity study of benzo[a]pyrene diol epoxide and its enantiomeric forms. Structural Chemistry, 2014, 25, 1521-1533.	2.0	370
2	Accumulation of perfluorinated alkyl substances (PFAS) in agricultural plants: A review. Environmental Research, 2019, 169, 326-341.	7.5	361
3	Electric vehicle battery technologies: From present state to future systems. Renewable and Sustainable Energy Reviews, 2015, 51, 1004-1012.	16.4	336
4	The geometry and electronic structure of Aristolochic acid: possible implications for a frozen resonance. Journal of Physical Organic Chemistry, 2013, 26, 473-483.	1.9	259
5	Thiamin Function, Metabolism, Uptake, and Transport. Biochemistry, 2014, 53, 821-835.	2.5	242
6	The environmental release and fate of antibiotics. Marine Pollution Bulletin, 2014, 79, 7-15.	5.0	212
7	Polycyclic Aromatic Hydrocarbons in the Environment: Environmental Fate and Transformation. Polycyclic Aromatic Compounds, 2013, 33, 311-330.	2.6	126
8	A review of emission products from bioethanol and its blends with gasoline. Background for new guidelines for emission control. Fuel, 2015, 140, 293-301.	6.4	98
9	Chemical Properties, Environmental Fate, and Degradation of Seven Classes of Pollutants. Chemical Research in Toxicology, 2014, 27, 713-737.	3.3	91
10	Methods for dispersing carbon nanotubes for nanotechnology applications: liquid nanocrystals, suspensions, polyelectrolytes, colloids and organization control. International Nano Letters, 2019, 9, 31-49.	5.0	56
11	Alternant conjugated oligomers with tunable and narrow HOMO-LUMO gaps as sustainable nanowires. RSC Advances, 2013, 3, 25881.	3.6	55
12	Mutations in Cytochrome b Resulting in Atovaquone Resistance Are Associated with Loss of Fitness in Plasmodium falciparum. Antimicrobial Agents and Chemotherapy, 2002, 46, 2435-2441.	3.2	53
13	Fullerenes toxicity and electronic properties. Environmental Chemistry Letters, 2013, 11, 105-118.	16.2	44
14	Modeling of enzyme-substrate complexes for the metalloproteases MMP-3, ADAM-9 and ADAM-10. Journal of Computer-Aided Molecular Design, 2003, 17, 551-565.	2.9	42
15	Ecotoxicity of polycyclic aromatic hydrocarbons, aromatic amines, and nitroarenes through molecular properties. Environmental Chemistry Letters, 2012, 10, 349-361.	16.2	41
16	Intriguing properties of unusual silicon nanocrystals. RSC Advances, 2015, 5, 78192-78208.	3.6	37
17	Molecular and crystal assembly inside the carbon nanotube: encapsulation and manufacturing approaches. Advances in Manufacturing, 2013, 1, 198-210.	6.1	36
18	A DFT study of pyrazine derivatives and their Fe complexes in corrosion inhibition process. Journal of Molecular Structure, 2015, 1086, 64-72.	3.6	33

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19	A critical view of the environmental condition of the Sognefjord. <i>Marine Pollution Bulletin</i> , 2010, 60, 2167-2174.	5.0	24
20	Impact of sludge deposition on biodiversity. <i>Ecotoxicology</i> , 2015, 24, 1799-1814.	2.4	24
21	Prediction of Partition Coefficients of Environmental Toxins Using Computational Chemistry Methods. <i>ACS Omega</i> , 2019, 4, 13772-13781.	3.5	24
22	Relationship between electronic properties and drug activity of seven quinoxaline compounds: A DFT study. <i>Journal of Molecular Structure</i> , 2015, 1091, 196-202.	3.6	23
23	Neither the New Zealand Genetically Hypertensive Strain nor Dahl Salt-Sensitive Strain Has an A1079T Transversion in the ± 1 Isoform of the Na ⁺ ,K ⁺ -ATPase Gene. <i>Hypertension</i> , 2001, 38, 786-792.	2.7	21
24	Biochemical and physiological effects from exhaust emissions. A review of the relevant literature. <i>Pathophysiology</i> , 2016, 23, 285-293.	2.2	21
25	Emerging carbon-based nanosensor devices: structures, functions and applications. <i>Advances in Manufacturing</i> , 2015, 3, 63-72.	6.1	20
26	Toxicological aspects of nanomaterials used in energy harvesting consumer electronics. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2102-2110.	16.4	13
27	Carbon Nanotubes in Electronics: Background and Discussion for Waste-Handling Strategies. <i>Challenges</i> , 2013, 4, 75-85.	1.7	13
28	Mathematical Modeling of Rogue Waves: A Survey of Recent and Emerging Mathematical Methods and Solutions. <i>Axioms</i> , 2018, 7, 42.	1.9	12
29	Application of calculated NMR parameters, aromaticity indices and wavefunction properties for evaluation of corrosion inhibition efficiency of pyrazine inhibitors. <i>Journal of Molecular Structure</i> , 2018, 1151, 34-40.	3.6	11
30	Remediation technologies for oil-drilling activities in the Arctic: oil-spill containment and remediation in open water. <i>Environmental Technology Reviews</i> , 2014, 3, 49-60.	4.3	10
31	Global electromagnetic toxicity and frequency-induced diseases: Theory and short overview. <i>Pathophysiology</i> , 2012, 19, 185-191.	2.2	7
32	Binding of Pollutants to Biomolecules: A Simulation Study. <i>Chemical Research in Toxicology</i> , 2016, 29, 1679-1688.	3.3	7
33	A molecular dynamics study of nanoparticle-formation from bioethanol-gasoline blend emissions. <i>Fuel</i> , 2016, 183, 55-63.	6.4	7
34	State-of-the-art developments in metal and carbon-based semiconducting nanomaterials: applications and functions in spintronics, nanophotonics, and nanomagnetism. <i>Advances in Manufacturing</i> , 2017, 5, 105-119.	6.1	5
35	Toward a Computational Ecotoxicity Assay. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 3792-3803.	5.4	5
36	Quantum chemical study of regular and irregular geometries of MgO nanoclusters: Effects on magnetizability, electronic properties and physical characteristics. <i>Materials Chemistry and Physics</i> , 2017, 199, 7-17.	4.0	4

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37	Quantum chemical calculations of the active site of the solute-binding protein PsaA from <i>Streptococcus pneumoniae</i> explain electronic selectivity of metal binding. <i>Structural Chemistry</i> , 2018, 29, 393-401.	2.0	4
38	Supersymmetric Hamiltonian and Vortex Formation Model in a Quantum Nonlinear System in an Inhomogeneous Electromagnetic Field. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900011.	2.8	4
39	Computer modeling and nanosecond simulation of the enzyme-substrate complex of the common lymphoblastic leukemia antigen (neprilysin) indicates shared residues at the primary specificity pocket (S1') with matrix metalloproteases. <i>Journal of Molecular Modeling</i> , 2003, 9, 348-354.	1.8	3
40	Are polycyclic aromatic hydrocarbons from fossil emissions potential hormone-analogue sources for modern man?. <i>Pathophysiology</i> , 2012, 19, 65-67.	2.2	3
41	Molecular simulation of carbon nanotubes as sorptive materials: sorption effects towards retene, perylene and cholesterol to 100 degrees Celsius and above. <i>Molecular Simulation</i> , 2016, 42, 1183-1192.	2.0	3
42	Applied Quantum Physics for Novel Quantum Computation Approaches: an Update. <i>Computational Mathematics and Modeling</i> , 2018, 29, 244-251.	0.5	3
43	Bonding of Butylparaben, Bis(2-ethylhexyl)-phthalate, and Perfluorooctanesulfonic Acid to DNA: Comparison with Benzo[a]pyrene Shows Low Probability for Strong Noncovalent DNA Intercalation. <i>Chemical Research in Toxicology</i> , 2018, 31, 22-36.	3.3	3
44	Analytical Solutions for a Supersymmetric Wave Equation for Quasiparticles in a Quantum System. <i>Advanced Theory and Simulations</i> , 2020, 3, 1900173.	2.8	3
45	A Korteweg-DeVries type model for helical soliton solutions for quantum and continuum phenomena. <i>International Journal of Modern Physics C</i> , 2021, 32, 2150031.	1.7	3
46	Spatial-Temporal Variations in January Temperature in Pakistan and Their Possible Links with SLP and 500-hPa Levels over the Period of 1950-2000: A Geographical Approach. <i>Atmospheric and Climate Sciences</i> , 2014, 04, 524-533.	0.3	3
47	Hypoxia-induced signaling and its relevance in discovering biomarkers for cancer research. <i>Biomarkers and Genomic Medicine</i> , 2013, 5, 135-141.	0.2	2
48	A density functional study of silicon fullerene endohedral X@Si20F20 and exohedral X-Si20F20 (X=O ²⁺ , S ²⁺ , Se ²⁺) complexes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 56, 69-73.	2.7	2
49	The accurate wavefunction of the active space of the rhenium dimer resolved using the ab initio Brueckner coupled-cluster method. <i>Structural Chemistry</i> , 2016, 27, 1071-1080.	2.0	2
50	Derivation and Numerical analysis of an Attenuation Operator for non-relativistic waves. <i>Scientific Reports</i> , 2018, 8, 16572.	3.3	2
51	Electromagnetic Vorticity in a Square-Well Crystal System Described by a Supersymmetric Wave Equation. <i>Advanced Theory and Simulations</i> , 2020, 3, 1900186.	2.8	2
52	Taking the complexity out of protein sequence analysis. <i>Drug Discovery Today</i> , 2002, 7, 172-175.	6.4	1
53	Renewable Energy Driven by Le Chatelier's Principle, Enzyme Function, and Non-Additive Contributions to Ion Fluctuations: A Hypothesis in Biomechanical and Nanotechnology Energy Theory. <i>Journal of Nanotechnology</i> , 2011, 2011, 1-8.	3.4	1
54	Quantum toxicology-A potential perspective in toxicology?. <i>Toxicology</i> , 2011, 288, 56-57.	4.2	1

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55	Addendum: Solvation Energies of Butylparaben, Benzo[a]pyrene diol epoxide, Perfluorooctanesulfonic acid, and DEHP in Complex with DNA Bases. Chemical Research in Toxicology, 2018, 31, 639-640.	3.3	1
56	Electron Orbital Theory for an Alternative Interpretation of Low-pressure Hurricane Systems. Marine Science, 2012, 2, 52-56.	0.2	1
57	Research and Environmental Protection of Norwegian fjords: A Standstill. Journal of Marine Science: Research & Development, 2013, 3, .	0.4	0
58	A Quantistic Interpretation of the Relationship between the Earth-Core and the Atmosphere. Atmospheric and Climate Sciences, 2014, 04, 508-513.	0.3	0