

# 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	A Kortewegâ€DeVries type model for helical soliton solutions for quantum and continuum phenomena. International Journal of Modern Physics C, 2021, 32, 2150031.	1.7	3
2	Toward a Computational Ecotoxicity Assay. Journal of Chemical Information and Modeling, 2020, 60, 3792-3803.	5.4	5
3	Analytical Solutions for a Supersymmetric Waveâ€Equation for Quasiparticles in a Quantum System. Advanced Theory and Simulations, 2020, 3, 1900173.	2.8	3
4	Electromagnetic Vorticity in a Squareâ€Well Crystal System Described by a Supersymmetric Waveâ€Equation. Advanced Theory and Simulations, 2020, 3, 1900186.	2.8	2
5	Prediction of Partition Coefficients of Environmental Toxins Using Computational Chemistry Methods. ACS Omega, 2019, 4, 13772-13781.	3.5	24
6	Supersymmetric Hamiltonian and Vortex Formation Model in a Quantum Nonlinear System in an Inhomogeneous Electromagnetic Field. Advanced Theory and Simulations, 2019, 2, 1900011.	2.8	4
7	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
8	Accumulation of perfluorinated alkyl substances (PFAS) in agricultural plants: A review. Environmental Research, 2019, 169, 326-341.	7.5	361
9	Quantum chemical calculations of the active site of the solute-binding protein PsaA from Streptococcus pneumoniae explain electronic selectivity of metal binding. Structural Chemistry, 2018, 29, 393-401.	2.0	4
10	Applied Quantum Physics for Novel Quantum Computation Approaches: an Update. Computational Mathematics and Modeling, 2018, 29, 244-251.	0.5	3
11	Application of calculated NMR parameters, aromaticity indices and wavefunction properties for evaluation of corrosion inhibition efficiency of pyrazine inhibitors. Journal of Molecular Structure, 2018, 1151, 34-40.	3.6	11
12	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. Chemical Research in Toxicology, 2018, 31, 22-36.	3.3	3
13	Derivation and Numerical analysis of an Attenuation Operator for non-relativistic waves. Scientific Reports, 2018, 8, 16572.	3.3	2
14	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
15	Mathematical Modeling of Rogue Waves: A Survey of Recent and Emerging Mathematical Methods and Solutions. Axioms, 2018, 7, 42.	1.9	12
16	State-of-the-art developments in metal and carbon-based semiconducting nanomaterials: applications and functions in spintronics, nanophotonics, and nanomagnetism. Advances in Manufacturing, 2017, 5, 105-119.	6.1	5
17	Quantum chemical study of regular and irregular geometries of MgO nanoclusters: Effects on magnetizability, electronic properties and physical characteristics. Materials Chemistry and Physics, 2017, 199, 7-17.	4.0	4
18	The accurate wavefunction of the active space of the rhenium dimerâ€resolved using the ab initio Brueckner coupled-cluster method. Structural Chemistry, 2016, 27, 1071-1080.	2.0	2

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19	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
20	Binding of Pollutants to Biomolecules: A Simulation Study. <i>Chemical Research in Toxicology</i> , 2016, 29, 1679-1688.	3.3	7
21	A molecular dynamics study of nanoparticle-formation from bioethanol-gasoline blend emissions. <i>Fuel</i> , 2016, 183, 55-63.	6.4	7
22	Biochemical and physiological effects from exhaust emissions. A review of the relevant literature. <i>Pathophysiology</i> , 2016, 23, 285-293.	2.2	21
23	A DFT study of pyrazine derivatives and their Fe complexes in corrosion inhibition process. <i>Journal of Molecular Structure</i> , 2015, 1086, 64-72.	3.6	33
24	Electric vehicle battery technologies: From present state to future systems. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 1004-1012.	16.4	336
25	Emerging carbon-based nanosensor devices: structures, functions and applications. <i>Advances in Manufacturing</i> , 2015, 3, 63-72.	6.1	20
26	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
27	Impact of sludge deposition on biodiversity. <i>Ecotoxicology</i> , 2015, 24, 1799-1814.	2.4	24
28	Intriguing properties of unusual silicon nanocrystals. <i>RSC Advances</i> , 2015, 5, 78192-78208.	3.6	37
29	A review of emission products from bioethanol and its blends with gasoline. Background for new guidelines for emission control. <i>Fuel</i> , 2015, 140, 293-301.	6.4	98
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	The environmental release and fate of antibiotics. <i>Marine Pollution Bulletin</i> , 2014, 79, 7-15.	5.0	212
32	Chemical Properties, Environmental Fate, and Degradation of Seven Classes of Pollutants. <i>Chemical Research in Toxicology</i> , 2014, 27, 713-737.	3.3	91
33	Wavefunction and reactivity study of benzo[a]pyrene diol epoxide and its enantiomeric forms. <i>Structural Chemistry</i> , 2014, 25, 1521-1533.	2.0	370
34	Thiamin Function, Metabolism, Uptake, and Transport. <i>Biochemistry</i> , 2014, 53, 821-835.	2.5	242
35	A density functional study of silicon fullerene endohedral X@Si20F20 and exohedral X-Si20F20 (X=O2â <sup>+</sup> , S2â <sup>+</sup> , Se2â <sup>+</sup> ) complexes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 56, 69-73.	2.7	2
36	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

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37	A Quantistic Interpretation of the Relationship between the Earth-Core and the Atmosphere. Atmospheric and Climate Sciences, 2014, 04, 508-513.	0.3	0
38	Polycyclic Aromatic Hydrocarbons in the Environment: Environmental Fate and Transformation. Polycyclic Aromatic Compounds, 2013, 33, 311-330.	2.6	126
39	Hypoxia-induced signaling and its relevance in discovering biomarkers for cancer research. Biomarkers and Genomic Medicine, 2013, 5, 135-141.	0.2	2
40	Molecular and crystal assembly inside the carbon nanotube: encapsulation and manufacturing approaches. Advances in Manufacturing, 2013, 1, 198-210.	6.1	36
41	Fullerenes toxicity and electronic properties. Environmental Chemistry Letters, 2013, 11, 105-118.	16.2	44
42	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
43	Alternant conjugated oligomers with tunable and narrow HOMO-LUMO gaps as sustainable nanowires. RSC Advances, 2013, 3, 25881.	3.6	55
44	Carbon Nanotubes in Electronics: Background and Discussion for Waste-Handling Strategies. Challenges, 2013, 4, 75-85.	1.7	13
45	Research and Environmental Protection of Norwegian fjords: A Standstill. Journal of Marine Science: Research & Development, 2013, 3, .	0.4	0
46	Ecotoxicity of polycyclic aromatic hydrocarbons, aromatic amines, and nitroarenes through molecular properties. Environmental Chemistry Letters, 2012, 10, 349-361.	16.2	41
47	Are polycyclic aromatic hydrocarbons from fossil emissions potential hormone-analogue sources for modern man?. Pathophysiology, 2012, 19, 65-67.	2.2	3
48	Global electromagnetic toxicity and frequency-induced diseases: Theory and short overview. Pathophysiology, 2012, 19, 185-191.	2.2	7
49	Toxicological aspects of nanomaterials used in energy harvesting consumer electronics. Renewable and Sustainable Energy Reviews, 2012, 16, 2102-2110.	16.4	13
50	Electron Orbital Theory for an Alternative Interpretation of Low-pressure Hurricane Systems. Marine Science, 2012, 2, 52-56.	0.2	1
51	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. Journal of Nanotechnology, 2011, 2011, 1-8.	3.4	1
52	Quantum toxicology—A potential perspective in toxicology?. Toxicology, 2011, 288, 56-57.	4.2	1
53	A critical view of the environmental condition of the Sognefjord. Marine Pollution Bulletin, 2010, 60, 2167-2174.	5.0	24
54	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

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55	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. Journal of Molecular Modeling, 2003, 9, 348-354.	1.8	3
56	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
57	Taking the complexity out of protein sequence analysis. Drug Discovery Today, 2002, 7, 172-175.	6.4	1
58	Neither the New Zealand Genetically Hypertensive Strain nor Dahl Salt-Sensitive Strain Has an A1079T Transversion in the $\alpha 1$ Isoform of the Na <sup>+</sup> ,K <sup>+</sup> -ATPase Gene. Hypertension, 2001, 38, 786-792.	2.7	21