Flavio F Contreras-Torres

List of Publications by Year
in descending order

44 papers	559 citations	687363 13 h-index	677142 22 g-index
45 all docs	45 docs citations	45 times ranked	870 citing authors

#	Article	IF	Citations
1	Surface enhanced Raman spectroscopy of phenolic antioxidants: A systematic evaluation of ferulic acid, p -coumaric acid, caffeic acid and sinapic acid. Vibrational Spectroscopy, 2017, 89, 113-122.	2.2	88
2	Low-Symmetry Structures of Au₃₂^Z (Z = +1, 0, â^'1) Clusters. Journal of Physical Chemistry A, 2008, 112, 353-357.	2.5	49
3	Differential cytotoxicity and internalization of graphene family nanomaterials in myocardial cells. Materials Science and Engineering C, 2017, 73, 633-642.	7.3	36
4	Solvent-free covalent functionalization of nanodiamond with amines. Applied Surface Science, 2013, 275, 324-334.	6.1	35
5	Solvent-free covalent functionalization of multi-walled carbon nanotubes and nanodiamond with diamines: Looking for cross-linking effects. Applied Surface Science, 2012, 259, 465-476.	6.1	30
6	Amorphous SiO2 nanoparticles promote cardiac dysfunction via the opening of the mitochondrial permeability transition pore in rat heart and human cardiomyocytes. Particle and Fibre Toxicology, 2020, 17, 15.	6.2	30
7	â€œGreenâ€•Functionalization of Pristine Multi-Walled Carbon Nanotubes with Long-Chain Aliphatic Amines. Journal of Nanoscience and Nanotechnology, 2011, 11, 5546-5554.	0.9	23
8	A STELLAR WIND ORIGIN FOR THE G2 CLOUD: THREE-DIMENSIONAL NUMERICAL SIMULATIONS. Astrophysical Journal Letters, 2014, 789, L33.	8.3	23
9	Hyaluronate Functionalized Multi-Wall Carbon Nanotubes Filled with Carboplatin as a Novel Drug Nanocarrier against Murine Lung Cancer Cells. Nanomaterials, 2019, 9, 1572.	4.1	23
10	Latest Advances and Developments to Detection of Microâ€•and Nanoplastics Using Surfaceâ€Enhanced Raman Spectroscopy. Particle and Particle Systems Characterization, 2022, 39, .	2.3	19
11	Enhancing internalization of silica particles in myocardial cells through surface modification. Materials Science and Engineering C, 2017, 79, 831-840.	7.3	16
12	Nanostructured Diamineâ€“Fullerene Derivatives: Computational Density Functional Theory Study and Experimental Evidence for their Formation via Gas-Phase Functionalization. Journal of Physical Chemistry A, 2012, 116, 1663-1676.	2.5	15
13	Solvent-free functionalization of graphene oxide powder and paper with aminobenzo-crown ethers and complexation with alkali metal cations. Materials Chemistry and Physics, 2021, 260, 124127.	4.0	14
14	Aggregation of Human Serum Albumin on Graphite and Single-Walled Carbon Nanotubes as Studied by Scanning Probe Microscopies. Journal of Nanoscience and Nanotechnology, 2011, 11, 5491-5498.	0.9	12
15	Deposition of silver nanoparticles onto human serum albuminâ€functionalised multiâ€walled carbon nanotubes. Canadian Journal of Chemical Engineering, 2013, 91, 264-270.	1.7	11
16	Surface diffusion and coverage effect of Li atom on graphene as studied by several density functional theory methods. Applied Surface Science, 2013, 285, 846-852.	6.1	11
17	Technetium-Radiolabeled Mannose-Functionalized Gold Nanoparticles as Nanoprobes for Sentinel Lymph Node Detection. Molecules, 2020, 25, 1982.	3.8	11
18	Interactions of Porphyrins with Low-Dimensional Carbon Materials. Journal of Computational and Theoretical Nanoscience, 2009, 6, 1383-1411.	0.4	10

#	Article	IF	Citations
19	Theoretical prediction of gas-phase infrared spectra of imidazo[1,2-a]pyrazinediones and imidazo[1,2-a]imidazo[1,2-d]pyrazinediones derived from glycine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2560-2575.	3.9	8
20	Imidazo[1,2-a]pyrazine-3,6-diones Derived from Î±-Amino Acids:Â A Theoretical Mechanistic Study of Their Formation via Pyrolysis and Silica-Catalyzed Process. Journal of Physical Chemistry A, 2006, 110, 7431-7440.	2.5	8
21	Interactions between cation-encapsulated single-walled carbon nanotubes M+@SWNT (M+=H, Li, Na) and nucleophiles. Computational Materials Science, 2008, 44, 240-246.	3.0	8
22	Transformation of Plant Cell Suspension Cultures with Amine-Functionalized Multi-Walled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2016, 16, 7461-7471.	0.9	7
23	Microstructure of polycrystalline gold nanoparticles and thin-films from a comparative X-ray line profile analysis. Materials Chemistry and Physics, 2021, 258, 123976.	4.0	7
24	DNA insertion in and wrapping around carbon nanotubes. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2011, 1, 902-919.	14.6	6
25	In-Situ Metallization of Thermally-Treated Tobacco Mosaic Virus Using Silver Nanoparticles. Journal of Nanoscience and Nanotechnology, 2017, 17, 4740-4747.	0.9	6
26	Carbon Nanotubes in Tumor-Targeted Chemotherapeutic Formulations: A Review of Opportunities and Challenges. ACS Applied Nano Materials, 2022, 5, 8649-8679.	5.0	6
27	Regioselectivity in Azahydro[60]fullerene Derivatives: Application of General-Purpose Reactivity Indicators. Journal of Physical Chemistry A, 2008, 112, 8154-8163.	2.5	5
28	Determination of contrast factors for cubic slip-systems and their application in the microstructural characterization of binary Fm<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mover accent="true"><mml:mn>3</mml:mn><mml:mo>Â¯</mml:mo></mml:mover></mml:mrow></mml:math>m materials. Journal of Physics and Chemistry of Solids, 2017, 110, 36-42.	4.0	5
29	The hydroxyacetone (CH₃COCH₂(OH)) torsional potential and isomerization: A theoretical study. International Journal of Quantum Chemistry, 2008, 108, 279-288.	2.0	4
30	Formation of simple organic molecules in the interstellar medium. International Journal of Quantum Chemistry, 2008, 108, 598-606.	2.0	4
31	Density functional computational studies on the intermediate stage of the ribose and glycine Maillard reaction: Formation of deoxyosones in aqueous solution. Food Chemistry, 2007, 105, 1342-1348.	8.2	3
32	Solvation of excess electrons trapped in charge pockets on hydrated molecular surfaces. International Journal of Quantum Chemistry, 2008, 108, 567-575.	2.0	3
33	Interaction Between NO₂ and an Elongated Fullerene C₆₀. Journal of Computational and Theoretical Nanoscience, 2010, 7, 408-413.	0.4	3
34	Enhanced Enzymatic Activity of Laccase (from Pycnoporus sanguineus CS43) Immobilized on Sputtered Nanostructured Gold Thin Films. Journal of Nanoscience and Nanotechnology, 2017, 17, 939-946.	0.9	3
35	X-ray diffraction line profile analysis: A microstructural study in polymorphic TiO2. Materials Today: Proceedings, 2019, 13, 420-427.	1.8	3
36	Dispersion-Corrected Density Functional Theory Study of the Noncovalent Complexes Formed with Imidazo[1,2-a]pyrazines Adsorbed onto Silver Clusters. ACS Omega, 2020, 5, 561-569.	3.5	3

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37	A dispersionâ€corrected density functional theory study of the noncovalent interactions between nucleobases and carbon nanotube models containing stoneâ€“wales defects. Journal of Computational Chemistry, 2020, 41, 780-789.	3.3	3
38	Amine-Functionalized Multi-Walled Carbon Nanotubes: An Atomic Force Microscopy Study. Journal of Scanning Probe Microscopy, 2009, 4, 100-106.	0.0	3
39	Vibrational Analysis and DFT Calculations of Neutral and Ionic Au₃₂ Clusters. Journal of Computational and Theoretical Nanoscience, 2009, 6, 1717-1721.	0.4	1
40	Monte Carlo Simulation on the RKKY Interactions of Co-Doped ZnS and ZnSe Nano-Films. Journal of Computational and Theoretical Nanoscience, 2009, 6, 148-152.	0.4	0
41	Editorial: Special Issue on the International Conference of Nanotechnology Tec.Nano 2018. Materials Today: Proceedings, 2019, 13, 317.	1.8	0
42	Atomic Force Microscopy of Extraterrestrial Samples. Journal of Advanced Microscopy Research, 2010, 5, 159-176.	0.3	0
43	Ultrasensitive detection of phenolic antioxidants by surface enhanced Raman spectroscopy. , 2017, , .		0
44	A Poissonâ€“Nernstâ€“Planck Model of Ion Transport and Interface Segregation in Metalâ€“Insulatorâ€“Semiconductor Structures and Solar Cells. Physica Status Solidi (B): Basic Research, 2022, 259, .	1.5	0