

Antonio Snchez Coronilla

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61
papers

1,042
citations

17
h-index

30
g-index

61
ext. papers

1,226
ext. citations

5
avg, IF

4.05
L-index

#	Paper	IF	Citations
61	Chitosan biofilms: Insights for the selective electromembrane extraction of fluoroquinolones from biological samples. <i>Analytica Chimica Acta</i> , 2021 , 1179, 338832	6.6	5
60	The Role of the Interactions at the Tungsten Disulphide Surface in the Stability and Enhanced Thermal Properties of Nanofluids with Application in Solar Thermal Energy. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
59	Factors that control the gold nanoparticles aggregation induced by adenine molecules: New insights through a combined experimental and theoretical study. <i>Journal of Molecular Liquids</i> , 2020 , 310, 113136	6	4
58	Novel WS-Based Nanofluids for Concentrating Solar Power: Performance Characterization and Molecular-Level Insights. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 5793-5804	9.5	10
57	Insights into the stability and thermal properties of WSe ₂ -based nanofluids for concentrating solar power prepared by liquid phase exfoliation. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114333	6	6
56	Theoretical study on the interactions between ibrutinib and gold nanoparticles for being used as drug delivery in the chronic lymphocytic leukemia. <i>Journal of Molecular Liquids</i> , 2020 , 316, 113878	6	3
55	Tuning the structural, optical and photoluminescence properties of hybrid perovskite quantum dots by A-site doping. <i>Applied Materials Today</i> , 2020 , 18, 100488	6.6	3
54	A Theoretical Study on the Inclusion of Fe, Cu, and Zn in Illite Clays. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-14	3.2	1
53	Steric Tuning of Sulfinamide/Sulfoxides as Chiral Ligands with , Pseudo-, and Pseudo- Symmetries: Application in Rhodium(I)-Mediated Arylation. <i>Organic Letters</i> , 2019 , 21, 6513-6518	6.2	2
52	Revealing at the molecular level the role of the surfactant in the enhancement of the thermal properties of the gold nanofluid system used for concentrating solar power. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 2421-2430	3.6	4
51	Unraveling the role of the base fluid arrangement in metal-nanofluids used to enhance heat transfer in concentrating solar power plants. <i>Journal of Molecular Liquids</i> , 2018 , 252, 271-278	6	5
50	Experimental and theoretical analysis of NiO nanofluids in presence of surfactants. <i>Journal of Molecular Liquids</i> , 2018 , 252, 211-217	6	13
49	Dramatically enhanced thermal properties for TiO ₂ -based nanofluids for being used as heat transfer fluids in concentrating solar power plants. <i>Renewable Energy</i> , 2018 , 119, 809-819	8.1	38
48	Oxygen termination of homoepitaxial diamond surface by ozone and chemical methods: An experimental and theoretical perspective. <i>Applied Surface Science</i> , 2018 , 433, 408-418	6.7	20
47	Towards the improvement of the global efficiency of concentrating solar power plants by using Pt-based nanofluids: The internal molecular structure effect. <i>Applied Energy</i> , 2018 , 228, 2262-2274	10.7	8
46	Experimental Characterization and Theoretical Modelling of Ag and Au-Nanofluids: A Comparative Study of Their Thermal Properties. <i>Journal of Nanofluids</i> , 2018 , 7, 1059-1068	2.2	2
45	Investigation of enhanced thermal properties in NiO-based nanofluids for concentrating solar power applications: A molecular dynamics and experimental analysis. <i>Applied Energy</i> , 2018 , 211, 677-688	10.7	36

44	Organic-Inorganic Hybrid Perovskite, CH ₃ NH ₃ PbI ₃ : Modifications in Pb Sites from Experimental and Theoretical Perspectives 2018 , 357-400		
43	Insights into the Photovoltaic and Photocatalytic Activity of Cu-, Al-, and Tm-Doped TiO ₂ 2018 , 165-194		
42	MoS ₂ nanosheets vs. nanowires: preparation and a theoretical study of highly stable and efficient nanofluids for concentrating solar power. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14919-14929	13	13
41	The impact of Pd on the light harvesting in hybrid organic-inorganic perovskite for solar cells. <i>Nano Energy</i> , 2017 , 34, 141-154	17.1	20
40	Ag-based nanofluidic system to enhance heat transfer fluids for concentrating solar power: Nano-level insights. <i>Applied Energy</i> , 2017 , 194, 19-29	10.7	42
39	Preparation of Au nanoparticles in a non-polar medium: obtaining high-efficiency nanofluids for concentrating solar power. An experimental and theoretical perspective. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12483-12497	13	25
38	The Role of Surfactants in the Stability of NiO Nanofluids: An Experimental and DFT Study. <i>ChemPhysChem</i> , 2017 , 18, 346-356	3.2	7
37	Hybrid Perovskite, CH ₃ NH ₃ PbI ₃ , for Solar Applications: An Experimental and Theoretical Analysis of Substitution in A and B Sites. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-10	3.2	7
36	Quantification of nucleobases/gold nanoparticles interactions: energetics of the interactions through apparent binding constants determination. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 22121-22128	3.6	15
35	Experimental and theoretical analysis of nanofluids based on high temperature-heat transfer fluid with enhanced thermal properties. <i>EPJ Applied Physics</i> , 2017 , 78, 10901	1.1	2
34	On the enhancement of heat transfer fluid for concentrating solar power using Cu and Ni nanofluids: An experimental and molecular dynamics study. <i>Nano Energy</i> , 2016 , 27, 213-224	17.1	50
33	Porphyrin-rhodamine conjugates as new materials with sensing ability. <i>Dyes and Pigments</i> , 2016 , 135, 113-126	4.6	7
32	New insights into organic-inorganic hybrid perovskite CH ₃ NH ₃ PbI ₃ nanoparticles. An experimental and theoretical study of doping in Pb sites with Sn ²⁺ , Sr ²⁺ , Cd ²⁺ and Ca ²⁺ . <i>Nanoscale</i> , 2015 , 7, 6216-29	7.7	176
31	TiO ₂ and pyrochlore Tm ₂ Ti ₂ O ₇ based semiconductor as a photoelectrode for dye-sensitized solar cells. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 145102	3	10
30	Surface thulium-doped TiO ₂ nanoparticles used as photoelectrodes in dye-sensitized solar cells: improving the open-circuit voltage. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 121, 1261-1269	2.6	5
29	Revealing the role of Pb(2+) in the stability of organic-inorganic hybrid perovskite CH ₃ NH ₃ Pb _{1-x} CdxI ₃ : an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23886-96	3.6	33
28	A Study of Overheating of Thermostatically Controlled TiO ₂ Thin Films by Using Raman Spectroscopy. <i>ChemPhysChem</i> , 2015 , 16, 3949-58	3.2	
27	Tm-doped TiO ₂ and Tm ₂ Ti ₂ O ₇ pyrochlore nanoparticles: enhancing the photocatalytic activity of rutile with a pyrochlore phase. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 605-16	3	17

26	Study of thulium doping effect and enhancement of photocatalytic activity of rutile TiO ₂ nanoparticles. <i>Materials Chemistry and Physics</i> , 2015 , 161, 175-184	4.4	10
25	Highly Al-doped TiO ₂ nanoparticles produced by Ball Mill Method: structural and electronic characterization. <i>Materials Research Bulletin</i> , 2015 , 70, 704-711	5.1	23
24	Introducing "UCA-FUKUI" software: reactivity-index calculations. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2492	2	74
23	SolGel Application for Consolidating Stone: An Example of Project-Based Learning in a Physical Chemistry Lab. <i>Journal of Chemical Education</i> , 2014 , 91, 1481-1485	2.4	10
22	Convergent study of Ru ligand interactions through QTAIM, ELF, NBO molecular descriptors and TDDFT analysis of organometallic dyes. <i>Molecular Physics</i> , 2014 , 112, 2063-2077	1.7	8
21	Experimental and theoretical study of the electronic properties of Cu-doped anatase TiO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 3835-45	3.6	91
20	Thermo-selective Tm(x)Ti(1-x)O(2-x/2) nanoparticles: from Tm-doped anatase TiO ₂ to a rutile/pyrochlore Tm ₂ Ti ₂ O ₇ mixture. An experimental and theoretical study with a photocatalytic application. <i>Nanoscale</i> , 2014 , 6, 12740-57	7.7	24
19	Electronic and structural properties of highly aluminum ion doped TiO(2) nanoparticles: a combined experimental and theoretical study. <i>ChemPhysChem</i> , 2014 , 15, 2267-80	3.2	24
18	New insights on the 7-azaindole photophysics: the overlooked role of its non phototautomerizable hydrogen bonded complexes. <i>Journal of Fluorescence</i> , 2014 , 24, 45-55	2.4	5
17	Cu(II)-Doped TiO ₂ Nanoparticles as Photoelectrode in Dye-Sensitized Solar Cells: Improvement of Open-Circuit Voltage and a Light Scattering Effect. <i>Science of Advanced Materials</i> , 2014 , 6, 473-482	2.3	7
16	Synthesis and Characterization of Gel-Derived, Highly Al-Doped TiO ₂ (Al _x Ti _{1-x} O _{2-x/2} ; x = 0.083, 0.154, 0.2) Nanoparticles: Improving the Photocatalytic Activity. <i>Science of Advanced Materials</i> , 2014 , 6, 2134-2145	2.3	5
15	The near-mid-IR HOMO-LUMO gap in amide linked porphyrin-rhodamine dyads. <i>Chemical Communications</i> , 2013 , 49, 8809-11	5.8	9
14	Electrophilic reactivity of tetrabromorhodamine 123 is bromine induced: convergent interpretation through complementary molecular descriptors. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 11938-45	2.8	2
13	Reorganization of self-assembled dipeptide porphyrin J-aggregates in water-ethanol mixtures. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 2396-404	3.4	25
12	Intermolecular potentials for simulations of collisions of SiNCS ⁺ and (CH ₃) ₂ SiNCS ⁺ ions with fluorinated self-assembled monolayers. <i>Chemical Physics</i> , 2012 , 399, 193-204	2.3	7
11	Combined study of vibrational spectra of Harboline by theoretical and experimental IR methods. <i>Vibrational Spectroscopy</i> , 2011 , 55, 287-294	2.1	1
10	A theoretical study of the hydrogen bond donor capability and co-operative effects in the hydrogen bond complexes of the diaza-aromatic betacarbolines. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 5276-84	3.6	9
9	Singlet excited state pyridinic deprotonation of the N9-methylbetacarboline cations in aqueous sodium hydroxide solutions. <i>Journal of Fluorescence</i> , 2010 , 20, 163-70	2.4	8

- 8 Ground- and Excited-State Hydrogen Bonding in the Diazaromatic Betacarboline Derivatives **2010**, 393-417
- 7 Ground and singlet excited state pyridinic protonation of N9-methylbetacarboline in water-N,N-dimethylformamide mixtures. *Journal of Fluorescence*, **2009**, 19, 1025-35 2.4 15
- 6 Dual emission of temperature-induced betacarboline self-associated hydrogen bond aggregates. *Photochemical and Photobiological Sciences*, **2009**, 8, 414-20 4.2 10
- 5 Influence of hydrogen bonding in the ground and the excited states of the isomers of the β -carboline anhydrobase (N2-methyl-9H-pyrido[3,4-b]indole) in aprotic solvents. *Chemical Physics*, **2008**, 344, 72-78 2.3 12
- 4 Ground state isomerism in betacarboline hydrogen bond complexes: The charge transfer nature of its large Stokes shifted emission. *Chemical Physics*, **2008**, 351, 27-32 2.3 17
- 3 Fluorescence quenching of betacarboline (9H-pyrido[3,4-b]indole) induced by intermolecular hydrogen bonding with pyridines. *Journal of Luminescence*, **2007**, 127, 671-677 3.8 12
- 2 Ground state isomerism and dual emission of the β -carboline anhydrobase (N2-methyl-9H-pyrido[3,4-b]indole) in aprotic solvents. *Chemical Physics*, **2006**, 327, 70-76 2.3 14
- 1 New Insights on the Excited-State Proton-Transfer Reactions of Betacarbolines: Cationic Exciplex Formation. *Journal of Physical Chemistry A*, **2004**, 108, 1910-1918 2.8 22