

Santiago Cuesta-Lopez

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,124
citations

516710

16
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414414

32
g-index

62
all docs

62
docs citations

62
times ranked

1386
citing authors

#	ARTICLE	IF	CITATIONS
1	Melting transition of oriented Li-DNA fibers submerged in ethanol solutions. <i>Biopolymers</i> , 2021, 112, e23422.	2.4	0
2	Connecting experimental synthetic variables with the microstructure and electronic properties of doped ferroelectric perovskites for solar cell applications using high-throughput frameworks. <i>Acta Materialia</i> , 2021, 204, 116466.	7.9	4
3	Numerical prediction of vortex trajectories and vortex-blade interaction on the CROR engine. <i>Aircraft Engineering and Aerospace Technology</i> , 2020, 92, 1345-1356.	1.2	1
4	Materials Modelling Under Extreme Conditions In Nexttower Project: Solar Receivers And Liquid Lead Thermal Storage. , 2020, , .		0
5	Database of novel magnetic materials for high-performance permanent magnet development. <i>Computational Materials Science</i> , 2019, 168, 188-202.	3.0	41
6	Insights into Carbon Nanotubes and Fullerenes in Molten Alkali Carbonates. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9909-9918.	3.1	3
7	Photo-sensitizing thin-film ferroelectric oxides using materials databases and high-throughput calculations. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27323-27333.	10.3	12
8	Development of Novel Material Systems and Coatings for Extreme Environments: A Brief Overview. <i>Jom</i> , 2019, 71, 683-690.	1.9	3
9	Technological Innovations in Metals Engineering. <i>Jom</i> , 2019, 71, 651-654.	1.9	0
10	Melting Transition of Oriented DNA Fibers Submerged in Poly(ethylene glycol) Solutions Studied by Neutron Scattering and Calorimetry. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2504-2515.	2.6	3
11	A high-throughput exploration of magnetic materials by using structure predicting methods. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	9
12	Local Piezoelectric Behavior of Potassium Sodium Niobate Prepared by a Facile Synthesis via Water Soluble Precursors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700921.	1.8	5
13	Advanced Synthesis on Lead-Free $K_xNa_{1-x}NbO_3$ Piezoceramics for Medical Imaging Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700896.	1.8	15
14	Colonization of Electrospun Polycaprolactone Fibers by Relevant Pathogenic Bacterial Strains. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11467-11473.	8.0	17
15	Kinky DNA in solution: Small-angle-scattering study of a nucleosome positioning sequence. <i>Physical Review E</i> , 2018, 98, .	2.1	7
16	Theoretical Study on Molten Alkali Carbonate Interfaces. <i>Langmuir</i> , 2018, 34, 13065-13076.	3.5	5
17	Self-healing ability assessment of irradiated multilayered composites: A continuum approach. <i>Journal of Nuclear Materials</i> , 2018, 512, 391-406.	2.7	2
18	Analysis of Polycaprolactone Microfibers as Biofilm Carriers for Biotechnologically Relevant Bacteria. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32773-32781.	8.0	15

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19	Possible alternatives to critical elements in coatings for extreme applications. IOP Conference Series: Materials Science and Engineering, 2018, 329, 012005.	0.6	7
20	Improving the mesoscopic modeling of DNA denaturation dynamics. Physical Biology, 2018, 15, 066001.	1.8	1
21	Theoretical study of the performance of refractory materials for extreme conditions applications. Nuclear Instruments & Methods in Physics Research B, 2018, 432, 24-28.	1.4	2
22	Influence of Three Commercial Graphene Derivatives on the Catalytic Properties of a <i>Lactobacillus plantarum</i> α -Rhamnosidase When Used as Immobilization Matrices. ACS Applied Materials & Interfaces, 2018, 10, 18170-18182.	8.0	17
23	The methodologies and strategies for the development of novel material systems and coatings for applications in extreme environments – a critical review. Manufacturing Review, 2018, 5, 9.	1.5	4
24	Exploring the Crystal Structure Space of CoFe_2P by Using Adaptive Genetic Algorithm Methods. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	3
25	Atomistic spin dynamics simulations of the MnAl α -phase and its antiphase boundary. Physical Review B, 2017, 96, .	3.2	18
26	Mechanically activated metathesis reaction in NaNH_2 – MgH_2 powder mixtures. Journal of Materials Science, 2017, 52, 11891-11899.	3.7	8
27	Role of Interface in Multilayered Composites under Irradiation: A Mathematical Investigation. Advances in Materials Science and Engineering, 2017, 2017, 1-16.	1.8	3
28	SUPERMAT – A virtual center for sustainable development of advanced materials operating under extreme conditions. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 1023-1027.	0.8	0
29	Applying high-throughput computational techniques for discovering next-generation of permanent magnets. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 942-950.	0.8	4
30	THE DOCENT CHALLENGE OF NANOTECHNOLOGY, MATERIALS SCIENCE AND BIOMOLECULAR MODELLING: EVALUATION OF VIRTUAL EXPERIMENTS AND 3D SOFTWARE AS EFFICIENT TOOLS TO COMMUNICATE AND TRANSFER KNOWLEDGE. , 2016, , .		0
31	Thermal denaturation of A-DNA. New Journal of Physics, 2014, 16, 113017.	2.9	7
32	Ab initio molecular dynamics: Relationship between structural phases and the sound velocity in dense hydrogen. Europhysics Letters, 2014, 108, 26001.	2.0	7
33	Interatomic potential for the compound-forming Li – Pb liquid alloy. Journal of Nuclear Materials, 2014, 448, 103-108.	2.7	14
34	Impact of nuclear irradiation on helium bubble nucleation at interfaces in liquid metals coupled to permeation through stainless steels. Fusion Engineering and Design, 2014, 89, 16-24.	1.9	2
35	Molten salts database for energy applications. Chemical Engineering and Processing: Process Intensification, 2013, 73, 87-102.	3.6	264
36	Nucleation, growth and transport modelling of helium bubbles under nuclear irradiation in lead–lithium with the self-consistent nucleation theory and surface tension corrections. Fusion Engineering and Design, 2013, 88, 3215-3223.	1.9	4

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37	The effect of a micro bubble dispersed gas phase on hydrogen isotope transport in liquid metals under nuclear irradiation. <i>Fusion Engineering and Design</i> , 2013, 88, 3205-3214.	1.9	3
38	Atomistic molecular point of view for liquid lead and lithium in Nuclear Fusion technology. <i>Journal of Nuclear Materials</i> , 2013, 440, 98-103.	2.7	16
39	Structural properties of hydrogen isotopes in solid phase in the context of inertial confinement fusion. <i>EPJ Web of Conferences</i> , 2013, 59, 16004.	0.3	4
40	Progress in Advanced Materials under Extreme Conditions for Nuclear Fusion Technology. <i>Fusion Science and Technology</i> , 2012, 61, 385-390.	1.1	0
41	Thermal Denaturation of DNA Studied with Neutron Scattering. <i>Physical Review Letters</i> , 2011, 106, 048101.	7.8	38
42	Nanoscale View of Shock Wave Propagation in Single Crystal Fe, W, and Ta for Nuclear Fusion Technology. <i>Fusion Science and Technology</i> , 2011, 60, 590-594.	1.1	4
43	Structural correlations and melting of B-DNA fibers. <i>Physical Review E</i> , 2011, 83, 061923.	2.1	17
44	Guanine radical chemistry reveals the effect of thermal fluctuations in gene promoter regions. <i>Nucleic Acids Research</i> , 2011, 39, 5276-5283.	14.5	18
45	Thermodynamics of protein-cation interaction: Ca ⁺² and Mg ⁺² binding to the fifth binding module of the LDL receptor. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 950-961.	2.6	18
46	Experimental and theoretical studies of sequence effects on the fluctuation and melting of short DNA molecules. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 034103.	1.8	33
47	Comment on "A generalized Langevin formalism of complete DNA melting transition" by Das T. and Chakraborty S.. <i>Europhysics Letters</i> , 2009, 85, 68003.	2.0	5
48	Nonlinear Analysis of the Dynamics of DNA Breathing. <i>Journal of Biological Physics</i> , 2009, 35, 73-89.	1.5	61
49	TRF2 promotes, remodels and protects telomeric Holliday junctions. <i>EMBO Journal</i> , 2009, 28, 641-651.	7.8	99
50	Adding a new dimension to DNA melting curves. <i>Europhysics Letters</i> , 2009, 87, 48009.	2.0	10
51	Modelling DNA at the mesoscale: a challenge for nonlinear science?. <i>Nonlinearity</i> , 2008, 21, T91-T100.	1.4	55
52	Common conformational changes in flavodoxins induced by FMN and anion binding: The structure of <i>Helicobacter pylori</i> apoflavodoxin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 69, 581-594.	2.6	24
53	Computational diagnosis of protein conformational diseases: Short molecular dynamics simulations reveal a fast unfolding of r-LDL mutants that cause familial hypercholesterolemia. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 66, 87-95.	2.6	12
54	Bubbles and denaturation in DNA. <i>European Physical Journal E</i> , 2006, 20, 421-434.	1.6	64

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55	van ErpetÂal.Reply:. Physical Review Letters, 2006, 97, .	7.8	8
56	van ErpetÂal.Reply:. Physical Review Letters, 2006, 96, .	7.8	9
57	Model for DNA hairpin denaturation. European Physical Journal E, 2005, 16, 235-246.	1.6	10
58	Can We Model DNA at the Mesoscale?. Journal of Biological Physics, 2005, 31, 273-301.	1.5	17
59	Design of Ligand Binding to an Engineered Protein Cavity Using Virtual Screening and Thermal Up-shift Evaluation. Journal of Computer-Aided Molecular Design, 2005, 19, 421-443.	2.9	1
60	Can One Predict DNA Transcription Start Sites by Studying Bubbles?. Physical Review Letters, 2005, 95, 218104.	7.8	62
61	A Double-Deletion Method to Quantifying Incremental Binding Energies in Proteins from Experiment: Example of a Destabilizing Hydrogen Bonding Pair. Biophysical Journal, 2005, 88, 1311-1321.	0.5	23
62	A model on the origin of RNA. Physical Biology, 2005, 2, 200-206.	1.8	6