

# Cristian Predescu

## List of Publications by Year in descending order

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59  
papers

1,037  
citations

471061

17  
h-index

454577

30  
g-index

59  
all docs

59  
docs citations

59  
times ranked

872  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of dextran-coated iron oxide nanoparticles. Royal Society Open Science, 2018, 5, 171525.	1.1	99
2	The incomplete beta function law for parallel tempering sampling of classical canonical systems. Journal of Chemical Physics, 2004, 120, 4119-4128.	1.2	95
3	On the Efficiency of Exchange in Parallel Tempering Monte Carlo Simulations. Journal of Physical Chemistry B, 2005, 109, 4189-4196.	1.2	84
4	Thermodynamics and equilibrium structure of Ne <sub>38</sub> cluster: Quantum mechanics versus classical. Journal of Chemical Physics, 2005, 122, 154305.	1.2	68
5	Removal of Heavy Metals from Wastewaters: A Challenge from Current Treatment Methods to Nanotechnology Applications. Toxics, 2020, 8, 101.	1.6	67
6	Heat capacity estimators for random series path-integral methods by finite-difference schemes. Journal of Chemical Physics, 2003, 119, 12119-12128.	1.2	57
7	Optimal series representations for numerical path integral simulations. Journal of Chemical Physics, 2002, 117, 7448-7463.	1.2	41
8	Reconstruction of silicon surfaces: a stochastic optimization problem. Physical Review B, 2004, 70, .	1.1	32
9	Numerical implementation of some reweighted path integral methods. Journal of Chemical Physics, 2003, 119, 4641-4654.	1.2	25
10	Sampling diffusive transition paths. Journal of Chemical Physics, 2007, 126, 144102.	1.2	25
11	Energy estimators for random series path-integral methods. Journal of Chemical Physics, 2003, 119, 10475-10488.	1.2	24
12	Bioactive Collagen Hydrolysate-Chitosan/Essential Oil Electrospun Nanofibers Designed for Medical Wound Dressings. Pharmaceutics, 2021, 13, 1939.	2.0	23
13	Valorization of Agri-Food Wastes as Sustainable Eco-Materials for Wastewater Treatment: Current State and New Perspectives. Materials, 2021, 14, 4581.	1.3	22
14	Recycled Polypropylene Improved with Thermoplastic Elastomers. International Journal of Polymer Science, 2017, 2017, 1-10.	1.2	21
15	Computationally efficient molecular dynamics integrators with improved sampling accuracy. Molecular Physics, 2012, 110, 967-983.	0.8	20
16	PLA-Based Materials Containing Bio-Plasticizers and Chitosan Modified with Rosehip Seed Oil for Ecological Packaging. Polymers, 2021, 13, 1610.	2.0	20
17	Existence of short-time approximations of any polynomial order for the computation of density matrices by path integral methods. Physical Review E, 2004, 69, 056701.	0.8	18
18	Quantum mechanical single molecule partition function from path integral Monte Carlo simulations. Journal of Chemical Physics, 2006, 124, 234101.	1.2	17

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19	Electrospun Nanosystems Based on PHBV and ZnO for Ecological Food Packaging. <i>Polymers</i> , 2021, 13, 2123.	2.0	17
20	Natural Polymers and Their Nanocomposites Used for Environmental Applications. <i>Nanomaterials</i> , 2022, 12, 1707.	1.9	17
21	Random series and discrete path integral methods: The L�vy-Ciesielski implementation. <i>Physical Review E</i> , 2003, 67, 026124.	0.8	16
22	Adsorption of Lead(II) from Aqueous Solution Using Chitosan and Polyvinyl Alcohol Blends. <i>Analytical Letters</i> , 2019, 52, 2365-2392.	1.0	16
23	Novel Adsorbent Based on Banana Peel Waste for Removal of Heavy Metal Ions from Synthetic Solutions. <i>Materials</i> , 2021, 14, 3946.	1.3	14
24	Highly Optimized Fourth-Order Short-Time Approximation for Path Integrals. <i>Journal of Physical Chemistry B</i> , 2006, 110, 667-670.	1.2	13
25	New Nanofibers Based on Protein By-Products with Bioactive Potential for Tissue Engineering. <i>Materials</i> , 2020, 13, 3149.	1.3	13
26	Reconstruction of thermally symmetrized quantum autocorrelation functions from imaginary-time data. <i>Physical Review E</i> , 2004, 70, 066705.	0.8	12
27	Optimal Choice of Dividing Surface for the Computation of Quantum Reaction Rates. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6491-6499.	1.2	12
28	Development of Bionanocomposites Based on PLA, Collagen and AgNPs and Characterization of Their Stability and In Vitro Biocompatibility. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2265.	1.3	12
29	The partial averaging method. <i>Journal of Mathematical Physics</i> , 2003, 44, 1226-1239.	0.5	11
30	Multifunctional Membranes – A Versatile Approach for Emerging Pollutants Removal. <i>Membranes</i> , 2022, 12, 67.	1.4	11
31	Removal of Chromium(VI) from Aqueous Solution Using a Novel Green Magnetic Nanoparticle – Chitosan Adsorbent. <i>Analytical Letters</i> , 2019, 52, 2416-2438.	1.0	10
32	Adsorption of Copper (II) from Aqueous Solutions with Alginate/Clay Hybrid Materials. <i>Materials</i> , 2021, 14, 7187.	1.3	10
33	Fast sampling algorithm for Lie-Trotter products. <i>Physical Review E</i> , 2005, 71, 045701.	0.8	9
34	Effect of Styrene-Diene Block Copolymers and Glass Bubbles on the Post-Consumer Recycled Polypropylene Properties. <i>Materials</i> , 2020, 13, 543.	1.3	8
35	An Innovative Method of Converting Ferrous Mill Scale Wastes into Superparamagnetic Nanoadsorbents for Water Decontamination. <i>Materials</i> , 2021, 14, 2539.	1.3	8
36	Local variational principle. <i>Physical Review E</i> , 2002, 66, 066133.	0.8	7

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37	Sustainable Rabbit Skin Glue to Produce Bioactive Nanofibers for Nonactive Wound Dressings. <i>Materials</i> , 2020, 13, 5388.	1.3	6
38	Characterization and Application Results of Two Magnetic Nanomaterials. <i>Journal of Environmental Quality</i> , 2013, 42, 129-136.	1.0	5
39	The Experimental Determination of the Friction Stress between the Semi-Product and the Active Plate at the Multiaxial Forging of Copper. <i>Materials Science Forum</i> , 0, 803, 216-221.	0.3	5
40	Synthesis and characterization of bimodal structured Cu-Fe <sub>3</sub> O <sub>4</sub> nanocomposites. <i>Powder Technology</i> , 2019, 342, 938-953.	2.1	5
41	Experimental and Theoretical Aspects of Nanostructuring by Multiaxial Forging. <i>Journal of Computational and Theoretical Nanoscience</i> , 2017, 14, 1744-1750.	0.4	5
42	MAGNETIC NANOPARTICLES USED IN ENVIRONMENTAL ENGINEERING FOR Pb AND Zn REMOVAL. <i>Environmental Engineering and Management Journal</i> , 2016, 15, 1019-1025.	0.2	5
43	SPATIALLY-DISCRETIZED HIGH-TEMPERATURE APPROXIMATIONS AND THEIR O(N) IMPLEMENTATION ON A GRID. <i>Journal of Theoretical and Computational Chemistry</i> , 2006, 05, 255-280.	1.8	4
44	Properties of Cu-xFe <sub>3</sub> O <sub>4</sub> Nanocomposites for Electrical Application. <i>Materials</i> , 2020, 13, 3086.	1.3	4
45	Sustainable Coated Nanostructures Based on Alginate and Electrospun Collagen Loaded with Antimicrobial Agents. <i>Coatings</i> , 2021, 11, 121.	1.2	4
46	L'Évy-Ciesielski random series as a useful platform for Monte Carlo path integral sampling. <i>Physical Review E</i> , 2005, 71, 046707.	0.8	3
47	Characterization of Magnetic Nanoiron Oxides for the Removal of Metal Ions from Aqueous Solution. <i>Analytical Letters</i> , 2017, 50, 2822-2838.	1.0	3
48	Remediation of Wastewater with Ultraviolet Irradiation Using a Novel Titanium (IV) Oxide Photocatalyst. <i>Analytical Letters</i> , 2019, 52, 2180-2187.	1.0	3
49	APPLICATION OF MAGNETITE NANOPARTICLES AS ADSORBENT FOR Cr, Cd, Ni AND Cu FROM AQUEOUS SOLUTIONS. <i>Environmental Engineering and Management Journal</i> , 2015, 14, 1001-1010.	0.2	3
50	Comparative Evaluation of the TRIP Effect in Steels with Different Contents of Mn and Al. <i>Metals</i> , 2022, 12, 443.	1.0	2
51	Short Review of Recent Developments for Path Integral Techniques. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	1
52	Comment on "Path-integral virial estimator based on the scaling of fluctuation coordinates: Application to quantum clusters with fourth-order propagators". <i>J. Chem. Phys.</i> 123, 104101 (2005)]. <i>Journal of Chemical Physics</i> , 2005, 123, 217102.	1.2	1
53	Moments of spectral functions: Monte Carlo evaluation and verification. <i>Physical Review E</i> , 2005, 72, 056709.	0.8	1
54	Entropic effects in large-scale Monte Carlo simulations. <i>Physical Review E</i> , 2007, 76, 016704.	0.8	1

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55	Midtown splines: An optimal charge assignment for electrostatics calculations. Journal of Chemical Physics, 2020, 153, 224117.	1.2	1
56	METHODS FOR HEAVY METALS (HM) EXTRACTION FROM SLUDGE SAMPLES AND THEIR USE FOR SOIL UPGRADING. Environmental Engineering and Management Journal, 2017, 16, 2469-2474.	0.2	1
57	Metallurgical Characterization of the Failed Motor Shaft Component from an Electric Surgical Motor used in Orthopedic Surgery. Key Engineering Materials, 2015, 638, 327-332.	0.4	0
58	Failure Analysis of a Metallic Component Used in Hospital Cooling Equipment. Key Engineering Materials, 0, 638, 310-315.	0.4	0
59	Functionalized Nano-Magnetic Particles Used for Metals Removals from Aqueous Solutions. Advanced Science Letters, 2013, 19, 264-267.	0.2	0