

Doru Constantin

List of Publications by Year in descending order

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79
papers

1,291
citations

361413

20
h-index

434195

31
g-index

86
all docs

86
docs citations

86
times ranked

1856
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time in Situ Probing of High-Temperature Quantum Dots Solution Synthesis. <i>Nano Letters</i> , 2015, 15, 2620-2626.	9.1	84
2	Isotropic, nematic, and lamellar phases in colloidal suspensions of nanosheets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6662-6667.	7.1	67
3	Nonequilibrium self-assembly dynamics of icosahedral viral capsids packaging genome or polyelectrolyte. <i>Nature Communications</i> , 2018, 9, 3071.	12.8	59
4	Norovirus Capsid Proteins Self-Assemble through Biphasic Kinetics via Long-Lived State-like Intermediates. <i>Journal of the American Chemical Society</i> , 2013, 135, 15373-15381.	13.7	50
5	Intermittent Brownian dynamics over a rigid strand: Heavily tailed relocation statistics in a simple geometry. <i>Physical Review E</i> , 2008, 78, 030102.	2.1	47
6	Photochromic Hybrid Organic~Inorganic Liquid-Crystalline Materials Built from Nonionic Surfactants and Polyoxometalates: Elaboration and Structural Study. <i>Langmuir</i> , 2008, 24, 6285-6291.	3.5	42
7	Diffusion Coefficients in a Lamellar Lyotropic Phase: Evidence for Defects Connecting the Surfactant Structure. <i>Physical Review Letters</i> , 2000, 85, 4297-4300.	7.8	37
8	Connectivity of the Hexagonal, Cubic, and Isotropic Phases of the C12EO6/H2O Lyotropic Mixture Investigated by Tracer Diffusion and X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2001, 105, 668-673.	2.6	34
9	Magnetic Nanorods Confined in a Lamellar Lyotropic Phase. <i>Langmuir</i> , 2008, 24, 8205-8209.	3.5	34
10	Solid-supported lipid multilayers: Structure factor and fluctuations. <i>European Physical Journal E</i> , 2003, 12, 283-290.	1.6	33
11	Bilayer Elasticity at the Nanoscale: The Need for New Terms. <i>PLoS ONE</i> , 2012, 7, e48306.	2.5	33
12	Interaction of Alamethicin Pores in DMPC Bilayers. <i>Biophysical Journal</i> , 2007, 92, 3978-3987.	0.5	32
13	Smectic mesophases of functionalized silver and gold nanoparticles with anisotropic plasmonic properties. <i>Chemical Communications</i> , 2013, 49, 7845.	4.1	29
14	Design of Engineered Cyclodextrin Derivatives for Spontaneous Coating of Highly Porous Metal-Organic Framework Nanoparticles in Aqueous Media. <i>Nanomaterials</i> , 2019, 9, 1103.	4.1	28
15	Biomimetic membranes of lipid~peptide model systems prepared on solid support. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S2439-S2453.	1.8	27
16	Nanostructuring of ionic liquids: impact on the cation mobility. A multi-scale study. <i>Nanoscale</i> , 2017, 9, 1901-1908.	5.6	26
17	Insights into the Formation Mechanism of CdSe Nanoplatelets Using in Situ X-ray Scattering. <i>Nano Letters</i> , 2019, 19, 6466-6474.	9.1	26
18	Lyotropic Lamellar Phase Doped with a Nematic Phase of Magnetic Nanorods. <i>Langmuir</i> , 2010, 26, 4586-4589.	3.5	23

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19	Reconstruction of the Disassembly Pathway of an Icosahedral Viral Capsid and Shape Determination of Two Successive Intermediates. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3471-3476.	4.6	23
20	Structure and interaction potentials in solid-supported lipid membranes studied by X-ray reflectivity at varied osmotic pressure. <i>European Physical Journal E</i> , 2006, 20, 221-230.	1.6	22
21	A two-dimensional nematic phase of magnetic nanorods. <i>Journal of Chemical Physics</i> , 2014, 140, 104904.	3.0	22
22	Repulsion Between Inorganic Particles Inserted Within Surfactant Bilayers. <i>Physical Review Letters</i> , 2008, 101, 098101.	7.8	21
23	Ionic Liquids: evidence of the viscosity scale-dependence. <i>Scientific Reports</i> , 2017, 7, 2241.	3.3	21
24	Real-Time <i>In Situ</i> Observations Reveal a Double Role for Ascorbic Acid in the Anisotropic Growth of Silver on Gold. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2830-2837.	4.6	21
25	Strain-controlled fluorescence polarization in a CdSe nanoplatelet-block copolymer composite. <i>Chemical Communications</i> , 2015, 51, 4051-4054.	4.1	20
26	Doxorubicin-Loaded Metal-Organic Frameworks Nanoparticles with Engineered Cyclodextrin Coatings: Insights on Drug Location by Solid State NMR Spectroscopy. <i>Nanomaterials</i> , 2021, 11, 945.	4.1	20
27	Structural Transition in the Isotropic Phase of the C12EO6/H2O Lyotropic Mixture: A Rheological Investigation. <i>Langmuir</i> , 2003, 19, 2554-2559.	3.5	19
28	From Chains to Monolayers: Nanoparticle Assembly Driven by Smectic Topological Defects. <i>Nano Letters</i> , 2020, 20, 1598-1606.	9.1	19
29	Electric field unbinding of solid-supported lipid multilayers. <i>European Physical Journal E</i> , 2005, 18, 273-278.	1.6	17
30	A PGSE-NMR Study of Molecular Self-Diffusion in Lamellar Phases Doped with Polyoxometalates. <i>Journal of Physical Chemistry B</i> , 2010, 114, 220-227.	2.6	17
31	The Amine Content of PEGylated Chitosan Bombyx mori Nanoparticles Acts as a Trigger for Protein Delivery. <i>Langmuir</i> , 2014, 30, 965-975.	3.5	17
32	Solution self-assembly of plasmonic Janus nanoparticles. <i>Soft Matter</i> , 2016, 12, 9666-9673.	2.7	16
33	Morphology of gold nanoparticles determined by full-curve fitting of the light absorption spectrum. Comparison with X-ray scattering and electron microscopy data. <i>Nanoscale</i> , 2014, 6, 13527-13534.	5.6	15
34	Lamellar L_{\pm} Mesophases Doped with Inorganic Nanoparticles. <i>ChemPhysChem</i> , 2014, 15, 1270-1282.	2.1	14
35	Identification of a major intermediate along the self-assembly pathway of an icosahedral viral capsid by using an analytical model of a spherical patch. <i>Soft Matter</i> , 2016, 12, 6728-6736.	2.7	14
36	High-frequency rheological behaviour of a multiconnected lyotropic phase. <i>Europhysics Letters</i> , 2002, 58, 236-242.	2.0	13

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37	Membrane-mediated repulsion between gramicidin pores. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1782-1789.	2.6	13
38	Reversible strain alignment and reshuffling of nanoplatelet stacks confined in a lamellar block copolymer matrix. <i>Nanoscale</i> , 2017, 9, 17371-17377.	5.6	12
39	Controlling the symmetry of supercrystals formed by plasmonic core-shell nanorods with tunable cross-section. <i>Nanoscale</i> , 2018, 10, 18362-18369.	5.6	12
40	Plasmonic Oligomers with Tunable Conductive Nanojunctions. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7093-7099.	4.6	12
41	Insertion of Gold Nanoparticles in Fluid Mesophases: Size Filtering and Control of Interactions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17682-17687.	3.1	11
42	Dynamics of bulk fluctuations in a lamellar phase studied by coherent x-ray scattering. <i>Physical Review E</i> , 2006, 74, 031706.	2.1	10
43	Communications: Short-range dynamics of a nematic liquid-crystalline phase. <i>Journal of Chemical Physics</i> , 2010, 132, 091101.	3.0	10
44	Interplay of Structure and Dynamics in Lithium/Ionic Liquid Electrolytes: Experiment and Molecular Simulation. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1618-1631.	2.6	10
45	The interaction of hybrid nanoparticles inserted within surfactant bilayers. <i>Journal of Chemical Physics</i> , 2010, 133, 144901.	3.0	9
46	Coupling between Inclusions and Membranes at the Nanoscale. <i>Physical Review Letters</i> , 2018, 120, 128104.	7.8	9
47	Symmetry Breaking in Seed-Mediated Silver Nanorod Growth Induced by Dimethyl Sulfoxide. <i>Chemistry of Materials</i> , 2021, 33, 2948-2956.	6.7	9
48	Structure and Formation Kinetics of Millimeter-Size Single Domain Supercrystals. <i>Advanced Functional Materials</i> , 2021, 31, 2101869.	14.9	9
49	Mesostructured silica matrix for irinotecan delivery systems. <i>Open Chemistry</i> , 2014, 12, 813-820.	1.9	8
50	Hybrid Nanocomposites with Tunable Alignment of the Magnetic Nanorod Filler. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1583-1588.	8.0	8
51	Why the aspect ratio? Shape equivalence for the extinction spectra of gold nanoparticles. <i>European Physical Journal E</i> , 2015, 38, 116.	1.6	8
52	Softness-driven complexity in supercrystals of gold nanoparticles. <i>Soft Matter</i> , 2021, 17, 6461-6469.	2.7	8
53	Structure, thermodynamics and dynamics of the isotropic phase of spherical non-ionic surfactant micelles. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 161-173.	9.4	7
54	Coherent X-ray scattering and speckle pattern of solid-supported multilayers of surfactant bilayers. <i>Physica B: Condensed Matter</i> , 2005, 357, 61-65.	2.7	6

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55	Slow dynamics of a colloidal lamellar phase. <i>Journal of Chemical Physics</i> , 2010, 133, 224902.	3.0	6
56	Varying the counter ion changes the kinetics, but not the final structure of colloidal gels. <i>Journal of Colloid and Interface Science</i> , 2016, 463, 137-144.	9.4	6
57	Direct Liquid to Crystal Transition in a Quasi-Two-Dimensional Colloidal Membrane. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4302-4307.	4.6	6
58	Lipid membranes on a surface grating studied by neutron reflectometry. <i>Europhysics Letters</i> , 2005, 71, 311-317.	2.0	5
59	Nanoparticle-Templated Self-Assembly of Viral Capsids Probed by Time-Resolved Absorbance Spectroscopy and X-Ray Scattering. <i>Physical Review Applied</i> , 2018, 10, .	3.8	5
60	Determining the morphology and concentration of core-shell Au/Ag nanoparticles. <i>Nanoscale Advances</i> , 2020, 2, 4522-4528.	4.6	5
61	Two-step assembly kinetics of gold nanoparticles. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1730-1739.	5.5	5
62	Fr�edericksz-Like Transition in a Biaxial Smectic- A Phase. <i>Physical Review X</i> , 2021, 11, .	8.9	5
63	Comment on "Tracer Diffusion in a Dislocated Lamellar System". <i>Physical Review Letters</i> , 2003, 91, 039801; author reply 039802.	7.8	4
64	The interaction of charged nanoparticles at interfaces. <i>Europhysics Letters</i> , 2012, 100, 18002.	2.0	4
65	Solution scattering from colloidal curved plates: barrel tiles, scrolls and spherical patches. <i>Journal of Applied Crystallography</i> , 2015, 48, 1901-1906.	4.5	4
66	Grazing Incidence X-ray Diffraction Studies of Lipid-Peptide Mixed Monolayers during Shear Flow. <i>ACS Omega</i> , 2020, 5, 14555-14563.	3.5	4
67	Membrane-Mediated Interactions. , 2018, , 311-350.		3
68	Growth Kinetics of Core-Shell Au/Ag Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21717-21721.	3.1	3
69	Infrared dichroism of gold nanorods controlled using a magnetically addressable mesophase. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5087.	5.5	2
70	Nonequilibrium Self-Assembly Dynamics of Icosahedral Viral Capsids Packaging Genome. <i>Biophysical Journal</i> , 2018, 114, 60a.	0.5	2
71	Interactions Between Topological Defects and Nanoparticles. <i>Frontiers in Physics</i> , 2020, 7, .	2.1	2
72	Sharp Spectral Variations of the Ultrafast Transient Light Extinction by Bimetallic Nanoparticles in the Near-UV. <i>Advanced Optical Materials</i> , 2021, 9, 2001778.	7.3	2

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73	Kinetics of phase ordering of nematic liquid crystals confined in porous media. <i>Physical Review E</i> , 1999, 60, 1812-1814.	2.1	1
74	The effect of gramicidin inclusions on the local order of membrane components. <i>European Physical Journal E</i> , 2018, 41, 44.	1.6	1
75	Revealing the Dynamics of Functional Nanomaterials in Their Formation and Application Media with Liquid and Gas-phase TEM. <i>Microscopy and Microanalysis</i> , 2020, 26, 196-198.	0.4	1
76	Acoustic Vibration Modes of Gold-Silver Core-Shell Nanoparticles. <i>Chemosensors</i> , 2022, 10, 193.	3.6	1
77	Shape-Controlled Second-Harmonic Scattering from Gold Nanotetrapods. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9831-9835.	3.1	1
78	Elasticity of Lipid Bilayer Membranes at the Nanoscale: The Need for New Terms. <i>Biophysical Journal</i> , 2013, 104, 244a.	0.5	0
79	Interaction and structuration of membrane-binding and membrane-excluding colloidal particles in lamellar phases. <i>Soft Matter</i> , 2019, 15, 4351-4362.	2.7	0