

Olga Kononova

List of Publications by Year in descending order

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32
papers

1,714
citations

471477

17
h-index

501174

28
g-index

35
all docs

35
docs citations

35
times ranked

2124
citing authors

#	ARTICLE	IF	CITATIONS
1	Unsupervised word embeddings capture latent knowledge from materials science literature. <i>Nature</i> , 2019, 571, 95-98.	27.8	590
2	High Active Material Loading in All-Solid-State Battery Electrode via Particle Size Optimization. <i>Advanced Energy Materials</i> , 2020, 10, 1902881.	19.5	152
3	Text-mined dataset of inorganic materials synthesis recipes. <i>Scientific Data</i> , 2019, 6, 203.	5.3	121
4	Data-driven materials research enabled by natural language processing and information extraction. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	117
5	Mechanical Transition from $\hat{1}$ -Helical Coiled Coils to $\hat{2}$ -Sheets in Fibrin(ogen). <i>Journal of the American Chemical Society</i> , 2012, 134, 20396-20402.	13.7	95
6	Semi-supervised machine-learning classification of materials synthesis procedures. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	85
7	Opportunities and challenges of text mining in materials research. <i>IScience</i> , 2021, 24, 102155.	4.1	81
8	Tubulin Bond Energies and Microtubule Biomechanics Determined from Nanoindentation <i>in Silico</i> . <i>Journal of the American Chemical Society</i> , 2014, 136, 17036-17045.	13.7	78
9	Assembly and Mechanical Properties of the Cargo-Free and Cargo-Loaded Bacterial Nanocompartment Encapsulin. <i>Biomacromolecules</i> , 2016, 17, 2522-2529.	5.4	62
10	Similarity of Precursors in Solid-State Synthesis as Text-Mined from Scientific Literature. <i>Chemistry of Materials</i> , 2020, 32, 7861-7873.	6.7	49
11	Structural Transitions and Energy Landscape for Cowpea Chlorotic Mottle Virus Capsid Mechanics from Nanomanipulation <i>in Vitro</i> and <i>in Silico</i> . <i>Biophysical Journal</i> , 2013, 105, 1893-1903.	0.5	47
12	Distilling a Materials Synthesis Ontology. <i>Matter</i> , 2019, 1, 8-12.	10.0	31
13	Mechanistic Basis for the Binding of RGD- and AGDV-Peptides to the Platelet Integrin $\hat{1}$ β $\hat{3}$. <i>Biochemistry</i> , 2017, 56, 1932-1942.	2.5	27
14	Molecular Mechanisms, Thermodynamics, and Dissociation Kinetics of Knob-Hole Interactions in Fibrin. <i>Journal of Biological Chemistry</i> , 2013, 288, 22681-22692.	3.4	25
15	Text-mined dataset of gold nanoparticle synthesis procedures, morphologies, and size entities. <i>Scientific Data</i> , 2022, 9, .	5.3	24
16	Regulatory element in fibrin triggers tension-activated transition from catch to slip bonds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8575-8580.	7.1	23
17	Dataset of solution-based inorganic materials synthesis procedures extracted from the scientific literature. <i>Scientific Data</i> , 2022, 9, .	5.3	23
18	Fluctuating Nonlinear Spring Model of Mechanical Deformation of Biological Particles. <i>PLoS Computational Biology</i> , 2016, 12, e1004729.	3.2	17

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19	Botulinum neurotoxin: unique folding of enzyme domain of the most-poisonous poison. <i>Journal of Biomolecular Structure and Dynamics</i> , 2014, 32, 804-815.	3.5	12
20	ULSA: unified language of synthesis actions for the representation of inorganic synthesis protocols. , 2022, 1, 313-324.		10
21	SOPâ€GPU: influence of solventâ€induced hydrodynamic interactions on dynamic structural transitions in protein assemblies. <i>Journal of Computational Chemistry</i> , 2016, 37, 1537-1551.	3.3	9
22	Order statistics inference for describing topological coupling and mechanical symmetry breaking in multidomain proteins. <i>Journal of Chemical Physics</i> , 2013, 139, 121913.	3.0	7
23	Allâ€Solidâ€State Batteries: High Active Material Loading in Allâ€Solidâ€State Battery Electrode via Particle Size Optimization (<i>Adv. Energy Mater.</i> 1/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070004.	19.5	7
24	Botulinum Endopeptidase: SAXS Experiments and MD Simulations Reveal Extended Solution Structures That Account for Its Biochemical Properties. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5801-5812.	2.6	5
25	Fluctuating nonlinear spring theory: Strength, deformability, and toughness of biological nanoparticles from theoretical reconstruction of force-deformation spectra. <i>Acta Biomaterialia</i> , 2021, 122, 263-277.	8.3	5
26	TensorCalculator: exploring the evolution of mechanical stress in the CCMV capsid. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 044006.	1.8	4
27	Botulinum neurotoxin inhibitor binding dynamics and kinetics relevant for drug design. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129933.	2.4	3
28	Structural Molecular Origins of Fibrin Mechanics. <i>Biophysical Journal</i> , 2013, 104, 59a.	0.5	0
29	Comparison of the RGD- and AGDV-Containing Peptide Interactions with the Platelet Integrin AlphaIIb beta3. <i>Biophysical Journal</i> , 2017, 112, 350a.	0.5	0
30	Molecular Mechanisms of Transition from Catch to Slip Bonds in Fibrin. <i>Biophysical Journal</i> , 2019, 116, 342a.	0.5	0
31	Molecular Basis of Biomechanics of Hemostasis and Thrombosis: Structural Molecular Transitions Underlying Deformation of Fibrin Clots and Thrombi.. <i>Blood</i> , 2012, 120, 2217-2217.	1.4	0
32	Characterization of the Interactions of Arg-Gly-Asp- and Ala-Gly-Asp-Val-Containing Peptides with the Platelet Integrin Î±IIbÎ²3. <i>Blood</i> , 2016, 128, 1350-1350.	1.4	0