

# Rong-Guang Xu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2737894/publications.pdf>

Version: 2024-02-01

25  
papers

521  
citations

687220

13  
h-index

642610

23  
g-index

28  
all docs

28  
docs citations

28  
times ranked

648  
citing authors

#	ARTICLE	IF	CITATIONS
1	How alginate monomers contribute to organic fouling on polyamide membrane surfaces?. Journal of Membrane Science, 2022, 643, 120078.	4.1	7
2	Nucleation of Frank Dislocation during the Squeeze-Out Process in Boundary Lubrication: A Molecular Dynamics Study. Materials, 2022, 15, 997.	1.3	0
3	Will Polycrystalline Platinum Tip Sliding on a Gold(111) Surface Produce Regular Stick-Slip Friction?. Langmuir, 2022, 38, 6808-6816.	1.6	9
4	Computational Simulations of Nanoconfined Argon Film through Adsorption-Desorption in a Uniform Slit Pore. Coatings, 2021, 11, 177.	1.2	2
5	A multi-field coupling model of gas flow in fractured coal seam. Advances in Geo-Energy Research, 2021, 5, 104-118.	3.1	30
6	A Molecular Dynamics Simulations Study of the Influence of Prestrain on the Pop-In Behavior and Indentation Size Effect in Cu Single Crystals. Materials, 2021, 14, 5220.	1.3	10
7	Advances in plasma-assisted ignition and combustion for combustors of aerospace engines. Aerospace Science and Technology, 2021, 117, 106952.	2.5	32
8	Colloidal Shear-Thickening Fluids Using Variable Functional Star-Shaped Particles: A Molecular Dynamics Study. Materials, 2021, 14, 6867.	1.3	4
9	Potential Agricultural and Biomedical Applications of Cold Atmospheric Plasma-Activated Liquids With Self-Organized Patterns Formed at the Interface. IEEE Transactions on Plasma Science, 2020, 48, 3455-3471.	0.6	19
10	Molecular Understanding of Ion Effect on Polyzwitterion Conformation in an Aqueous Environment. Langmuir, 2020, 36, 7648-7657.	1.6	10
11	On the shear dilation of polycrystalline lubricant films in boundary lubricated contacts. Journal of Chemical Physics, 2020, 152, 104708.	1.2	4
12	On the asymptotic expressions of critical energy barrier in Prandtl-Tomlinson model. International Journal of Smart and Nano Materials, 2019, 10, 107-115.	2.0	3
13	The impact of radicals in cold atmospheric plasma on the structural modification of gap junction: a reactive molecular dynamics study. International Journal of Smart and Nano Materials, 2019, 10, 144-155.	2.0	21
14	Phase transition in two-dimensional tellurene under mechanical strain modulation. Nano Energy, 2019, 58, 202-210.	8.2	43
15	Molecular Simulations of the Hydration Behavior of a Zwitterion Brush Array and Its Antifouling Property in an Aqueous Environment. Langmuir, 2018, 34, 2245-2257.	1.6	46
16	Squeezing and stick-slip friction behaviors of lubricants in boundary lubrication. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6560-6565.	3.3	31
17	Computational simulations of solvation force and squeezing out of dodecane chain molecules in an atomic force microscope. Journal of Chemical Physics, 2017, 147, 054705.	1.2	10
18	Contact stiffness and damping of liquid films in dynamic atomic force microscope. Journal of Chemical Physics, 2016, 144, 154702.	1.2	11

#	ARTICLE	IF	CITATIONS
19	Molecular Dynamics Simulations of a Poly(ethylene glycol)-Grafted Polyamide Membrane and Its Interaction with a Calcium Alginate Gel. <i>Langmuir</i> , 2016, 32, 4424-4433.	1.6	41
20	Solvation force simulations in atomic force microscopy. <i>Journal of Chemical Physics</i> , 2014, 140, 214702.	1.2	16
21	Interdiffusion of Ni-Al multilayers: A continuum and molecular dynamics study. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	44
22	Bayesian Inference of Atomic Diffusivity in a Binary Ni/Al System Based on Molecular Dynamics. <i>Multiscale Modeling and Simulation</i> , 2011, 9, 486-512.	0.6	29
23	Effect of asymmetric strange“antistrange sea to the NuTeV anomaly. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 607, 101-106.	1.5	48
24	Nucleon sea in the effective chiral quark model. <i>Physical Review D</i> , 2005, 71, .	1.6	38
25	Sigma meson cloud and proton's light flavor sea quarks. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 602, 67-72.	1.5	11