Illia B Dobryden

List of Publications by Year
in descending order

37	699	516681 16	580810 25
papers	citations	h-index	g-index

39	39	39	934
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ZnO-Cu2O core-shell nanowires as stable and fast response photodetectors. Nano Energy, 2018, 51, 308-316.	16.0	94
2	Surface and corrosion properties of AA6063-T5 aluminum alloy in molybdate-containing sodium chloride solutions. Corrosion Science, 2020, 171, 108658.	6.6	52
3	Adsorption Behavior of Cellulose and Its Derivatives toward Ag(I) in Aqueous Medium: An AFM, Spectroscopic, and DFT Study. Langmuir, 2015, 31, 12390-12400.	3.5	38
4	Local surface mechanical properties of PDMS-silica nanocomposite probed with Intermodulation AFM. Composites Science and Technology, 2017, 150, 111-119.	7.8	37
5	Synergistic effects of metal-induced aggregation of human serum albumin. Colloids and Surfaces B: Biointerfaces, 2019, 173, 751-758.	5.0	35
6	From force curves to surface nanomechanical properties. Physical Chemistry Chemical Physics, 2017, 19, 23642-23657.	2.8	31
7	Nickel-nanodiamond coatings electrodeposited from tartrate electrolyte at ambient temperature. Surface and Coatings Technology, 2019, 380, 125063.	4.8	31
8	Nano-scale mechanical and wear properties of a waterborne hydroxyacrylic-melamine anti-corrosion coating. Applied Surface Science, 2018, 457, 548-558.	6.1	29
9	Glyco-Modification of Mucin Hydrogels to Investigate Their Immune Activity. ACS Applied Materials & Interfaces, 2020, 12, 19324-19336.	8.0	27
10	Engineering of electronic and optical properties of PbS thin films via Cu doping. Superlattices and Microstructures, 2016, 97, 519-528.	3.1	26
11	Biofabrication of Nanocelluloseâ€“Mycelium Hybrid Materials. Advanced Sustainable Systems, 2021, 5, 2000196.	5.3	24
12	The influence of AFM and VSI techniques on the accurate calculation of tribological surface roughness parameters. Tribology International, 2013, 57, 242-250.	5.9	20
13	Reversible Condensation of Mucins into Nanoparticles. Langmuir, 2018, 34, 13615-13625.	3.5	20
14	Chemical Milling of Cast Ti-6Al-4V and Ti-6Al-2Sn-4Zr-2Mo Alloys in Hydrofluoric-Nitric Acid Solutions. Corrosion, 2017, 73, 394-407.	1.1	18
15	Intracellular Fate of Hydrophobic Nanocrystal Selfâ€Assemblies in Tumor Cells. Advanced Functional Materials, 2020, 30, 2004274.	14.9	18
16	Probing structural stability of double-walled carbon nanotubes at high non-hydrostatic pressure by Raman spectroscopy. High Pressure Research, 2011, 31, 186-190.	1.2	17
17	Corrosion of AD31 (AA6063) Alloy in Chloride-Containing Solutions. Protection of Metals and Physical Chemistry of Surfaces, 2018, 54, 291-300.	1.1	17
18	Temperature-Dependent Nanomechanical Properties of Adsorbed Poly-NIPAm Microgel Particles Immersed in Water. Langmuir, 2021, 37, 1902-1912.	3.5	17

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19	Temperature-dependent surface nanomechanical properties of a thermoplastic nanocomposite. Journal of Colloid and Interface Science, 2017, 494, 204-214.	9.4	15
20	Dynamic self-stabilization in the electronic and nanomechanical properties of an organic polymer semiconductor. Nature Communications, 2022, 13, .	12.8	14
21	Modeling and Measuring Viscoelasticity with Dynamic Atomic Force Microscopy. Physical Review Applied, 2018, 10, .	3.8	13
22	Bioinspired Adhesion Polymers: Wear Resistance of Adsorption Layers. Langmuir, 2019, 35, 15515-15525.	3.5	12
23	Load-dependent surface nanomechanical properties of poly-HEMA hydrogels in aqueous medium. Soft Matter, 2019, 15, 7704-7714.	2.7	12
24	Microstructure of Bentonite in Iron Ore Green Pellets. Microscopy and Microanalysis, 2014, 20, 33-41.	0.4	9
25	Friction at nanopillared polymer surfaces beyond Amontonsâ€™ laws: Stick-slip amplitude coefficient (SSAC) and multiparametric nanotribological properties. Journal of Colloid and Interface Science, 2021, 583, 414-424.	9.4	9
26	Nanoscale Mechanical Properties of Coreâ€“Shell-like Poly-NIPAm Microgel Particles: Effect of Temperature and Cross-Linking Density. Journal of Physical Chemistry B, 2021, 125, 9860-9869.	2.6	9
27	Water Dispersive Suprastructures: An Organizational Impact on Nanomechanical Properties. Advanced Materials Interfaces, 2021, 8, 2001687.	3.7	8
28	Nanoscale Wear and Mechanical Properties of Calcite: Effects of Stearic Acid Modification and Water Vapor. Langmuir, 2021, 37, 9826-9837.	3.5	8
29	An atomic force microscopy study of the interaction between magnetite particles: The effect of Ca2+ ions and pH. Powder Technology, 2013, 233, 116-122.	4.2	7
30	Corrosion properties of nickel coatings obtained from aqueous and nonaqueous electrolytes. Surface and Interface Analysis, 2019, 51, 943-953.	1.8	7
31	Mechanical Properties of Organic Electronic Polymers on the Nanoscale. Advanced Electronic Materials, 2022, 8, .	5.1	7
32	Background-Force Compensation in Dynamic Atomic Force Microscopy. Physical Review Applied, 2017, 7, .	3.8	5
33	Surface Forces between Nanomagnetite and Silica in Aqueous Ca2+ Solutions Studied with AFM Colloidal Probe Method. Colloids and Interfaces, 2020, 4, 41.	2.1	5
34	Thermoresponsive Pentablock Copolymer on Silica: Temperature Effects on Adsorption, Surface Forces, and Friction. Langmuir, 2019, 35, 653-661.	3.5	3
35	Local Wear of Catechol-Containing Diblock Copolymer Layers: Wear Volume, Stickâ€“Slip, and Nanomechanical Changes. Journal of Physical Chemistry C, 2021, 125, 21277-21292.	3.1	2
36	Nanoscale characterization of an all-oxide coreâ€“shell nanorod heterojunction using intermodulation atomic force microscopy (AFM) methods. Nanoscale Advances, 2021, 3, 4388-4394.	4.6	1

#	Article	IF	Citations
37	Surface Nanomechanics of Coatings and Hydrogels. IOP Conference Series: Materials Science and Engineering, 2019, 500, 012025.	0.6	0