

Jakub Barbasz

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,242
citations

361413

20
h-index

377865

34
g-index

54
all docs

54
docs citations

54
times ranked

1750
citing authors

#	ARTICLE	IF	CITATIONS
1	Random sequential adsorption: An efficient tool for investigating the deposition of macromolecules and colloidal particles. <i>Advances in Colloid and Interface Science</i> , 2022, 306, 102692.	14.7	16
2	Plasmonic hot spots reveal local conformational transitions induced by DNA double-strand breaks. <i>Scientific Reports</i> , 2022, 12, .	3.3	3
3	Physics of free climbing. <i>Physical Review E</i> , 2021, 103, 062135.	2.1	0
4	Qualitative Description of Detachment Forces for Macromolecules. <i>Macromolecules</i> , 2021, 54, 7377-7387.	4.8	1
5	SARS-CoV-2 virion physicochemical characteristics pertinent to abiotic substrate attachment. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 55, 101466.	7.4	17
6	Increasing AFM colloidal probe accuracy by optical tweezers. <i>Scientific Reports</i> , 2021, 11, 509.	3.3	7
7	Methods for Studying Endometrial Pathology and the Potential of Atomic Force Microscopy in the Research of Endometrium. <i>Cells</i> , 2021, 10, 219.	4.1	5
8	Investigation of quaternary structure of aggregating 3-ketosteroid dehydrogenase from <i>Sterolibacterium denitrificans</i> : In the pursuit of consensus of various biophysical techniques. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1027-1039.	2.4	8
9	An evaluation of the construction of the device along with the software for digital archiving, sending the data, and supporting the diagnosis of cervical cancer. <i>Wspolczesna Onkologia</i> , 2019, 23, 171-177.	1.4	1
10	Colligative and hydrodynamic properties of aqueous solutions of pectin from cornelian cherry and commercial apple pectin. <i>Food Hydrocolloids</i> , 2019, 89, 406-415.	10.7	24
11	Structural, topographical, and mechanical characteristics of purified polyhydroxyoctanoate polymer. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47192.	2.6	28
12	Surface fine structure influence on saturated random packings. <i>Journal of Chemical Physics</i> , 2017, 146, 054706.	3.0	4
13	Adsorption/Desorption Transition of Recombinant Human Neurotrophin 4: Physicochemical Characterization. <i>Langmuir</i> , 2017, 33, 9548-9557.	3.5	8
14	Aggregation/dispersion transitions of T4 phage triggered by environmental ion availability. <i>Journal of Nanobiotechnology</i> , 2017, 15, 32.	9.1	54
15	Mechanism of immunoglobulin G adsorption on polystyrene microspheres. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 137, 183-190.	5.0	12
16	Interactions of tumour-derived micro(nano)vesicles with human gastric cancer cells. <i>Journal of Translational Medicine</i> , 2015, 13, 376.	4.4	27
17	Cytotoxic Activity of Highly Purified Silver Nanoparticles Sol Against Cells of Human Immune System. <i>Applied Biochemistry and Biotechnology</i> , 2015, 176, 817-834.	2.9	33
18	Isolation and characterization of circulating micro(nano)vesicles in the plasma of colorectal cancer patients and their interactions with tumor cells. <i>Oncology Reports</i> , 2015, 34, 2768-2775.	2.6	14

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19	Charge Stabilized Silver Nanoparticles Applied as Antibacterial Agents. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3574-3583.	0.9	31
20	Random packing of regular polygons and star polygons on a flat two-dimensional surface. <i>Physical Review E</i> , 2014, 90, 022402.	2.1	30
21	Kinetics of random sequential adsorption of nearly spherically symmetric particles. <i>Physical Review E</i> , 2014, 89, 022401.	2.1	9
22	Ordering in fibrinogen layers: A numerical study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 178-182.	5.0	9
23	Modelling of interacting dimer adsorption. <i>Surface Science</i> , 2013, 612, 24-30.	1.9	24
24	Linseed oil based nanocapsules as delivery system for hydrophobic quantum dots. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 1-7.	5.0	27
25	Mechanisms of Fibrinogen Adsorption at Solid Substrates at Lower pH. <i>Langmuir</i> , 2013, 29, 7005-7016.	3.5	44
26	Random packing of spheres in Menger sponge. <i>Journal of Chemical Physics</i> , 2013, 138, 214704.	3.0	16
27	Random sequential adsorption of trimers and hexamers. <i>Journal of Molecular Modeling</i> , 2013, 19, 5423-5427.	1.8	16
28	Domain Structure Created by Irreversible Adsorption of Dimers. <i>Acta Physica Polonica B</i> , 2013, 44, 937.	0.8	5
29	Competitive Adsorption of Bimodal Latex Suspension. <i>Acta Physica Polonica B</i> , 2013, 44, 945.	0.8	2
30	An RSA study of dimers. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P03015.	2.3	12
31	Random sequential adsorption on fractals. <i>Journal of Chemical Physics</i> , 2012, 137, 044706.	3.0	23
32	Mechanisms of Fibrinogen Adsorption on Mica. <i>ACS Symposium Series</i> , 2012, , 97-127.	0.5	4
33	Changes in the morphology and the composition of the Ag YSZ and Ag LSM interfaces caused by polarization. <i>Solid State Ionics</i> , 2012, 225, 755-759.	2.7	13
34	Voltammetric studies of colloidal particle monolayer on a gold rotating disk electrode. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 403, 62-68.	4.7	7
35	Polyelectrolyte multilayer capsules with quantum dots for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 90, 211-216.	5.0	32
36	Mechanisms of Fibrinogen Adsorption at Solid Substrates. <i>Langmuir</i> , 2011, 27, 6868-6878.	3.5	85

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37	Zeta potential of particle bilayers on mica: A streaming potential study. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 195-203.	9.4	25
38	Circulating tumour-derived microvesicles in plasma of gastric cancer patients. <i>Cancer Immunology, Immunotherapy</i> , 2010, 59, 841-850.	4.2	232
39	Kinetics of Fibrinogen Adsorption on Hydrophilic Substrates. <i>Langmuir</i> , 2010, 26, 11934-11945.	3.5	59
40	Deposition of colloid particles at heterogeneous and patterned surfaces. <i>Advances in Colloid and Interface Science</i> , 2009, 147-148, 2-17.	14.7	24
41	Molecular Dynamic Simulation of Polyelectrolites. <i>Procedia Chemistry</i> , 2009, 1, 1547-1552.	0.7	0
42	Colloid particle deposition on heterogeneous surfaces produced by polyelectrolyte adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 343, 111-117.	4.7	21
43	Formation of multilayered structures in the layer by layer deposition of colloid particles. <i>Journal of Colloid and Interface Science</i> , 2008, 317, 1-10.	9.4	18
44	Particle Assembly on Patterned Surfaces Bearing Circular (Dots) and Rectangular (Stripes) Surface Features. <i>Langmuir</i> , 2008, 24, 1756-1762.	3.5	18
45	How to estimate the randomness in random sequence generation tasks?. <i>Polish Psychological Bulletin</i> , 2008, 39, 42-46.	0.3	7
46	Irreversible Adsorption of Particles on Surface Features of a Circular and Rectangular Shape. <i>Adsorption Science and Technology</i> , 2007, 25, 463-472.	3.2	1
47	Particle Assembly on Surface Features (Patterned Surfaces). <i>Langmuir</i> , 2007, 23, 5557-5562.	3.5	9
48	Modelling self-assembling of colloid particles in multilayered structures. <i>Applied Surface Science</i> , 2007, 253, 5776-5780.	6.1	14
49	Characterization of poly(ethylene imine) layers on mica by the streaming potential and particle deposition methods. <i>Journal of Colloid and Interface Science</i> , 2007, 313, 86-96.	9.4	56
50	Fe ₃ O ₄ (001) films on Fe(001): Termination and reconstruction of iron-rich surfaces. <i>Physical Review B</i> , 2006, 74, .	3.2	63
51	Surface Structure of Epitaxial Magnetite Fe ₃ O ₄ (001) Films: In Situ STM and CEMS Studies. <i>Journal of Physical Chemistry B</i> , 2004, 108, 14356-14361.	2.6	39