

Alexandros Koutsioubas

List of Publications by Year in descending order

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68
papers

1,255
citations

361045

20
h-index

414034

32
g-index

73
all docs

73
docs citations

73
times ranked

2310
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation Energies Control the Macroscopic Properties of Physically Cross-Linked Materials. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10038-10043.	7.2	98
2	Highly Active Metastable Ruthenium Nanoparticles for Hydrogen Production through the Catalytic Hydrolysis of Ammonia Borane. <i>Small</i> , 2014, 10, 3145-3152.	5.2	81
3	Pink Noise of Ionic Conductance through Single Artificial Nanopores Revisited. <i>Physical Review Letters</i> , 2010, 105, 260602.	2.9	67
4	Reversible Control of Physical Properties via an Oxygen-Vacancy-Driven Topotactic Transition in Epitaxial $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Thin Films. <i>Advanced Materials</i> , 2019, 31, e1806183.	11.1	64
5	Multifunctional supramolecular polymer networks as next-generation consolidants for archaeological wood conservation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17743-17748.	3.3	50
6	The high-intensity reflectometer of the Jülich Centre for Neutron Science: MARIA. <i>Journal of Applied Crystallography</i> , 2018, 51, 646-654.	1.9	49
7	Memprot: a program to model the detergent corona around a membrane protein based on SEC-SAXS data. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 86-93.	2.5	48
8	Nanoporous alumina enhanced surface plasmon resonance sensors. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	45
9	Influence of ibuprofen on phospholipid membranes. <i>Physical Review E</i> , 2015, 91, 022716.	0.8	39
10	Investigation of Confined Ionic Liquid in Nanostructured Materials by a Combination of SANS, Contrast-Matching SANS, and Nitrogen Adsorption. <i>Langmuir</i> , 2011, 27, 7980-7985.	1.6	32
11	A Comprehensive Mechanism of Fibrin Network Formation Involving Early Branching and Delayed Single- to Double-Strand Transition from Coupled Time-Resolved X-ray/Light-Scattering Detection. <i>Journal of the American Chemical Society</i> , 2014, 136, 5376-5384.	6.6	32
12	MARIA: Magnetic reflectometer with high incident angle. <i>Journal of Large-scale Research Facilities JLSRF</i> , 0, 1, A8.	0.0	28
13	Formation of alkane-phosphonic acid self-assembled monolayers on alumina: an <i>in situ</i> SPR study. <i>Surface and Interface Analysis</i> , 2009, 41, 897-903.	0.8	27
14	Combined Coarse-Grained Molecular Dynamics and Neutron Reflectivity Characterization of Supported Lipid Membranes. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11474-11483.	1.2	27
15	Self-Assembly and Photoinduced Optical Anisotropy in Dendronized Supramolecular Azopolymers. <i>Macromolecules</i> , 2014, 47, 897-906.	2.2	26
16	Influence of the cross-linker content on adsorbed functionalised microgel coatings. <i>Polymer</i> , 2019, 169, 29-35.	1.8	26
17	Self-Diffusion in Amorphous Silicon. <i>Physical Review Letters</i> , 2016, 116, 025901.	2.9	24
18	A peptide corresponding to the C-terminal region of pleiotrophin inhibits angiogenesis <i>in vivo</i> and <i>in vitro</i> . <i>Journal of Cellular Biochemistry</i> , 2011, 112, 1532-1543.	1.2	23

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19	Ab Initio and All-Atom Modeling of Detergent Organization around Aquaporin-0 Based on SAXS Data. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13588-13594.	1.2	22
20	Neutron Reflectivity Study of Free-End Distribution in Polymer Brushes. <i>Macromolecules</i> , 2009, 42, 6209-6214.	2.2	21
21	Incorporation of a hydration layer in the 'dummy atom' <i>ab initio</i> structural modelling of biological macromolecules. <i>Journal of Applied Crystallography</i> , 2013, 46, 1884-1888.	1.9	21
22	New tools for grazing incidence neutron scattering experiments open perspectives to study nano-scale tribology mechanisms. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 871, 72-76.	0.7	20
23	Low-Resolution Structure of Detergent-Solubilized Membrane Proteins from Small-Angle Scattering Data. <i>Biophysical Journal</i> , 2017, 113, 2373-2382.	0.2	20
24	Formation of polymer brushes inside cylindrical pores: A computer simulation study. <i>Journal of Chemical Physics</i> , 2009, 131, 044901.	1.2	19
25	Mechanically strong, fluorescent hydrogels from zwitterionic, fully π -conjugated polymers. <i>Chemical Communications</i> , 2014, 50, 8930-8933.	2.2	19
26	Crowding effect on helix-coil transition: Beyond entropic stabilization. <i>Journal of Chemical Physics</i> , 2012, 136, 215101.	1.2	15
27	On the implementation of nano-structured materials in surface plasmon resonance sensors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 165, 270-273.	1.7	14
28	Effect of benzocaine and propranolol on phospholipid-based bilayers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 32057-32071.	1.3	14
29	Surface plasmon resonance as a tool for the estimation of adsorbed polymeric layer characteristics: Theoretical considerations and experiment. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2060-2070.	2.4	13
30	Structural basis of the signalling through a bacterial membrane receptor HasR deciphered by an integrative approach. <i>Biochemical Journal</i> , 2016, 473, 2239-2248.	1.7	13
31	Polymer Brushes on Periodically Nanopatterned Surfaces. <i>Langmuir</i> , 2008, 24, 13717-13722.	1.6	12
32	Time-Resolved Neutron Reflectivity during Supported Membrane Formation by Vesicle Fusion. <i>Langmuir</i> , 2017, 33, 10598-10605.	1.6	12
33	Membrane stiffness and myelin basic protein binding strength as molecular origin of multiple sclerosis. <i>Scientific Reports</i> , 2020, 10, 16691.	1.6	12
34	Adsorption behavior of PS-PEO diblock copolymers on silver and alumina surfaces: A surface plasmon resonance study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1580-1591.	2.4	11
35	Neutron Reflectivity and Computer Simulation Studies of Self-Assembled Brushes Formed by Centrally Adsorbed Star Polymers. <i>Macromolecules</i> , 2008, 41, 7648-7655.	2.2	11
36	Tuning spinterface properties in iron/fullerene thin films. <i>Nanotechnology</i> , 2019, 30, 435705.	1.3	11

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37	Interaction with Human Serum Proteins Reveals Biocompatibility of Phosphocholine-Functionalized SPIONs and Formation of Albumin-Decorated Nanoparticles. <i>Langmuir</i> , 2020, 36, 8777-8791.	1.6	11
38	Mucin Thin Layers: A Model for Mucus-Covered Tissues. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3712.	1.8	10
39	Magnetic Particle Self-Assembly at Functionalized Interfaces. <i>Langmuir</i> , 2021, 37, 4064-4071.	1.6	10
40	Peptide Pores in Lipid Bilayers: Voltage Facilitation Pleads for a Revised Model. <i>Physical Review Letters</i> , 2013, 111, 028102.	2.9	9
41	On the formation of dendrimer/nucleolipids surface films for directed self-assembly. <i>Soft Matter</i> , 2015, 11, 1973-1990.	1.2	9
42	Grazing Incidence Neutron Spin Echo Study of Poly(N-isopropylacrylamide) Brushes. <i>Macromolecules</i> , 2020, 53, 1819-1830.	2.2	9
43	Adsorption of block copolymers in nanoporous alumina. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1676-1682.	2.4	8
44	Model-independent recovery of interfacial structure from multi-contrast neutron reflectivity data. <i>Journal of Applied Crystallography</i> , 2019, 52, 538-547.	1.9	8
45	<i>DENFERT</i> version 2: extension of <i>ab initio</i> structural modelling of hydrated biomolecules to the case of small-angle neutron scattering data. <i>Journal of Applied Crystallography</i> , 2016, 49, 690-695.	1.9	7
46	A versatile UHV transport and measurement chamber for neutron reflectometry under UHV conditions. <i>Review of Scientific Instruments</i> , 2016, 87, 123909.	0.6	7
47	Slow and remanent electric polarization of adsorbed BSA layer evidenced by neutron reflection. <i>Soft Matter</i> , 2012, 8, 2638.	1.2	6
48	Magnetolectric coupling in iron oxide nanoparticleâ€”barium titanate composites. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 065301.	1.3	6
49	Migration Kinetics of Surface Ions in Oxygenâ€”Deficient Perovskite During Topotactic Transitions. <i>Small</i> , 2021, 17, e2104356.	5.2	6
50	Ionophores at work: Exploring the interaction of guanosine-based amphiphiles with phospholipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 2392-2401.	1.4	5
51	Long-range excitations in phospholipid membranes. <i>Chemistry and Physics of Lipids</i> , 2019, 225, 104788.	1.5	5
52	Probing the Interface Structure of Adhering Cells by Contrast Variation Neutron Reflectometry. <i>Langmuir</i> , 2019, 35, 513-521.	1.6	5
53	Influence of NaCl on the Structure and Dynamics of Phospholipid Layers. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	5
54	Mutually Beneficial Combination of Molecular Dynamics Computer Simulations and Scattering Experiments. <i>Membranes</i> , 2021, 11, 507.	1.4	5

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55	<i>anakis</i> : a compact software package for model-based analysis of specular neutron and X-ray reflectometry data sets. <i>Journal of Applied Crystallography</i> , 2021, 54, 1857-1866.	1.9	5
56	Order vs. Disorder: Cholesterol and Omega-3 Phospholipids Determine Biomembrane Organization. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5322.	1.8	5
57	Strain and electric field control of magnetism in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ thin films on ferroelectric BaTiO_3 substrates. <i>New Journal of Physics</i> , 2020, 22, 053018.	1.2	4
58	Adhesion Process of Biomimetic Myelin Membranes Triggered by Myelin Basic Protein. <i>Frontiers in Chemistry</i> , 2021, 9, 631277.	1.8	4
59	Insertion and activation of functional Bacteriorhodopsin in a floating bilayer. <i>Journal of Colloid and Interface Science</i> , 2021, 597, 370-382.	5.0	4
60	Carbohydrate-carbohydrate interaction drives the preferential insertion of dirhamnolipid into glycosphingolipid enriched membranes. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 739-748.	5.0	4
61	Distortion of surfactant lamellar phases induced by surface roughness. <i>European Physical Journal: Special Topics</i> , 2020, 229, 2807-2823.	1.2	3
62	Soliton-Mediated Magnetic Reversal in an All-Oxide-Based Synthetic Antiferromagnetic Superlattice. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20788-20795.	4.0	3
63	Observation of iron diffusion in the near-surface region of magnetite at 470 K. <i>Physical Review Research</i> , 2020, 2, .	1.3	3
64	Sitosterol and glucosylceramide cooperative transversal and lateral uneven distribution in plant membranes. <i>Scientific Reports</i> , 2021, 11, 21618.	1.6	3
65	Measurements of Dynamic Contributions to Coherent Neutron Scattering. <i>Colloids and Interfaces</i> , 2018, 2, 31.	0.9	2
66	Simpler neutron resonator enhances the wave-field for grazing incidence scattering experiments with lower parasitic scattering. <i>Physica B: Condensed Matter</i> , 2018, 551, 405-406.	1.3	1
67	Open-Bundle Structure as the Unfolding Intermediate of Cytochrome $c\epsilon^2$ Revealed by Small Angle Neutron Scattering. <i>Biomolecules</i> , 2022, 12, 95.	1.8	0
68	Migration Kinetics of Surface Ions in Oxygen-Deficient Perovskite During Topotactic Transitions (Small 51/2021). <i>Small</i> , 2021, 17, .	5.2	0