Alioscka A Sousa

List of Publications by Year
in descending order

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50 papers	3,232 citations	236925 25 h-index	223800 46 g-index
51 all docs	51 docs citations	51 times ranked	5331 citing authors

#	Article	IF	Citations
1	Targeted Killing of Cancer Cells in Vivo and in Vitro with EGF-Directed Carbon Nanotube-Based Drug Delivery. ACS Nano, 2009, 3, 307-316.	14.6	796
2	PSD-95 Is Required to Sustain the Molecular Organization of the Postsynaptic Density. Journal of Neuroscience, 2011, 31, 6329-6338.	3.6	242
3	Effective transvascular delivery of nanoparticles across the blood-brain tumor barrier into malignant glioma cells. Journal of Translational Medicine, 2008, 6, 80.	4.4	234
4	PSD-95 family MAGUKs are essential for anchoring AMPA and NMDA receptor complexes at the postsynaptic density. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6983-92.	7.1	215
5	Hydrogen-Bonded Polymer Capsules Formed by Layer-by-Layer Self-Assembly. Macromolecules, 2003, 36, 8590-8592.	4.8	162
6	Nanoscale 3D cellular imaging by axial scanning transmission electron tomography. Nature Methods, 2009, 6, 729-731.	19.0	160
7	Distribution and clearance of PEG-single-walled carbon nanotube cancer drug delivery vehicles in mice. Nanomedicine, 2010, 5, 1535-1546.	3.3	151
8	Physiologic upper limit of pore size in the blood-tumor barrier of malignant solid tumors. Journal of Translational Medicine, 2009, 7, 51.	4.4	146
9	Effect of the Charge State (z = â”1, 0, +1) on the Nuclear Magnetic Resonance of Monodisperse Au₂₅[S(CH₂)₂Ph]₁₈^z Clusters. Analytical Chemistry, 2011, 83, 6355-6362.	6.5	124
10	Dual-axis electron tomography of biological specimens: Extending the limits of specimen thickness with bright-field STEM imaging. Journal of Structural Biology, 2011, 174, 107-114.	2.8	73
11	Development and application of STEM for the biological sciences. Ultramicroscopy, 2012, 123, 38-49.	1.9	71
12	Biointeractions of ultrasmall glutathione-coated gold nanoparticles: effect of small size variations. Nanoscale, 2016, 8, 6577-6588.	5.6	69
13	Synthesis, Characterization, and Direct Intracellular Imaging of Ultrasmall and Uniform Glutathioneâ€Coated Gold Nanoparticles. Small, 2012, 8, 2277-2286.	10.0	67
14	Aggregation and fibril morphology of the Arctic mutation of Alzheimerâ€™s Aî² peptide by CD, TEM, STEM and in situ AFM. Journal of Structural Biology, 2012, 180, 174-189.	2.8	57
15	Monte Carlo electron-trajectory simulations in bright-field and dark-field STEM: Implications for tomography of thick biological sections. Ultramicroscopy, 2009, 109, 213-221.	1.9	50
16	Circadian Modulation of Neurons and Astrocytes Controls Synaptic Plasticity in Hippocampal Area CA1. Cell Reports, 2020, 33, 108255.	6.4	45
17	Binding kinetics of ultrasmall gold nanoparticles with proteins. Nanoscale, 2018, 10, 3235-3244.	5.6	39
18	Combining Portable Raman Probes with Nanotubes for Theranostic Applications. Theranostics, 2011, 1, 310-321.	10.0	35

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19	PAR1 activation induces rapid changes in glutamate uptake and astrocyte morphology. Scientific Reports, 2017, 7, 43606.	3.3	35
20	Passive Diffusion as a Mechanism Underlying Ribbon Synapse Vesicle Release and Resupply. Journal of Neuroscience, 2014, 34, 8948-8962.	3.6	34
21	Water mapping in hydrated soft materials. Ultramicroscopy, 2006, 106, 130-145.	1.9	29
22	Selective Protein Adsorption on a Phase-Separated Solvent-Cast Polymer Blend. Langmuir, 2006, 22, 6286-6292.	3.5	27
23	A Note on the use of Steadyâ€“State Fluorescence Quenching to Quantify Nanoparticleâ€“Protein Interactions. Journal of Fluorescence, 2015, 25, 1567-1575.	2.5	27
24	Allosteric inhibition of Î±-thrombin enzymatic activity with ultrasmall gold nanoparticles. Nanoscale Advances, 2019, 1, 378-388.	4.6	27
25	Biomolecular interactions of ultrasmall metallic nanoparticles and nanoclusters. Nanoscale Advances, 2021, 3, 2995-3027.	4.6	27
26	Quantitative STEM mass measurement of biological macromolecules in a 300 kV TEM. Journal of Microscopy, 2007, 228, 25-33.	1.8	26
27	Diffuse Polymer Interfaces in Lobed Nanoemulsions Preserved in Aqueous Media. Journal of the American Chemical Society, 2006, 128, 6570-6571.	13.7	25
28	Imaging the distribution of individual platinum-based anticancer drug molecules attached to single-wall carbon nanotubes. Nanomedicine, 2009, 4, 763-772.	3.3	24
29	Cryo-electron tomography of the magnetotactic vibrio Magnetovibrio blakemorei: Insights into the biomineralization of prismatic magnetosomes. Journal of Structural Biology, 2013, 181, 162-168.	2.8	22
30	Physicochemical characterization of ferumoxytol, heparin and protamine nanocomplexes for improved magnetic labeling of stem cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 503-513.	3.3	21
31	Nanoscale Composition of Biphasic Polymer Nanocolloids in Aqueous Suspension. Microscopy and Microanalysis, 2008, 14, 459-468.	0.4	20
32	Zwitterionic glutathione monoethyl ester as a new capping ligand for ultrasmall gold nanoparticles. RSC Advances, 2016, 6, 46350-46355.	3.6	20
33	Mechanistic Insights into Ultrasmall Gold Nanoparticleâ€“Protein Interactions through Measurement of Binding Kinetics. Journal of Physical Chemistry C, 2019, 123, 28450-28459.	3.1	18
34	Nanoscale Morphological Changes during Hydrolytic Degradation and Erosion of a Bioresorbable Polymer. Macromolecules, 2006, 39, 7306-7312.	4.8	16
35	Limitations of beam damage in electron spectroscopic tomography of embedded cells. Journal of Microscopy, 2010, 239, 223-232.	1.8	12
36	Ultrasmall Gold Nanoparticles Coated with Zwitterionic Glutathione Monoethyl Ester: A Model Platform for the Incorporation of Functional Peptides. Journal of Physical Chemistry B, 2020, 124, 3892-3902.	2.6	12

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37	Direct visualization of CaMKII at postsynaptic densities by electron microscopy tomography. Journal of Comparative Neurology, 2012, 520, 4218-4225.	1.6	11
38	Identification of PSD-95 in the Postsynaptic Density Using MiniSOG and EM Tomography. Frontiers in Neuroanatomy, 2018, 12, 107.	1.7	10
39	Regulation of Thrombin Activity with Ultrasmall Nanoparticles: Effects of Surface Chemistry. Langmuir, 2020, 36, 7991-8001.	3.5	9
40	Selective adsorption of surface-modified ferritin on a phase-separated polymer blend. Colloids and Surfaces B: Biointerfaces, 2009, 73, 152-155.	5.0	8
41	Nanoscale Imaging of Protein Molecules at the Postsynaptic Density. Neuromethods, 2014, , 1-21.	0.3	7
42	Impact of soft protein interactions on the excretion, extent of receptor occupancy and tumor accumulation of ultrasmall metal nanoparticles: a compartmental model simulation. RSC Advances, 2019, 9, 26927-26941.	3.6	7
43	Mass Mapping of Amyloid Fibrils in the Electron Microscope Using STEM Imaging. Methods in Molecular Biology, 2013, 950, 195-207.	0.9	6
44	Quantitative mechanistic model for ultrasmall nanoparticleâ€“protein interactions. Nanoscale, 2020, 12, 19230-19240.	5.6	5
45	Biophysical Characterization of Nanoparticle-Protein Interactions by Fluorescence Quenching Titration: Limitations, Pitfalls, and Application of a Model-Free Approach for Data Analysis. Reviews in Fluorescence, 2018, , 53-73.	0.5	4
46	Cell-surface glycosaminoglycans regulate the cellular uptake of charged polystyrene nanoparticles. Nanoscale, 2022, 14, 7350-7363.	5.6	4
47	Introduction: Nanoimaging Techniques in Biology. , 2013, 950, 1-10.		2
48	Mapping the Structure of a Hydrated Polymer Blend Using Energy-Loss Spectroscopy in the Cryo-STEM. Materials Research Society Symposia Proceedings, 2004, 839, 131.	0.1	0
49	The Spatial Distribution of Water in a Frozen-Hydrated Polymer Blend. Microscopy and Microanalysis, 2004, 10, 880-881.	0.4	0
50	Quantitative EELS Imaging of Phase-Separated Morphology in Poly(DTE Carbonate)-Poly(Caprolactone) Thin-Film Blends. Microscopy and Microanalysis, 2004, 10, 1426-1427.	0.4	0