Kateryna Loza

List of Publications by Year
in descending order

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Version: 2024-02-01

64	2,172	236612	233125
papers	citations	25 h-index	45 g-index

68	68	68	3715
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Water-Based Synthesis of Ultrasmall Nanoparticles of Platinum Group Metal Oxides (1.8 nm). Inorganic Chemistry, 2022, 61, 5133-5147.	1.9	6
2	Targeting the Surface of the Protein 14â€3â€3 by Ultrasmall (1.5â€…nm) Gold Nanoparticles Carrying the Specific Peptide CRaf. ChemBioChem, 2021, 22, 1456-1463.	1.3	10
3	Controlling the Surface Functionalization of Ultrasmall Gold Nanoparticles by Sequenceâ€Defined Macromolecules. Chemistry - A European Journal, 2021, 27, 1451-1464.	1.7	17
4	Influence of Nanoparticle Processing on the Thermoelectric Properties of (Bi x Sb 1âˆ’X) 2 Te 3 Ternary Alloys. ChemistryOpen, 2021, 10, 189-198.	0.9	2
5	Peptide-Conjugated Ultrasmall Gold Nanoparticles (2 nm) for Selective Protein Targeting. ACS Applied Bio Materials, 2021, 4, 945-965.	2.3	17
6	Luminescent Amphiphilic Aminoglycoside Probes to Study Transfection. ChemBioChem, 2021, 22, 1563-1567.	1.3	5
7	The effect of short silica fibers (0.3ÂÎ¼m 3.2ÂÎ¼m) on macrophages. Science of the Total Environment, 2021, 769, 144575.	3.9	2
8	Metalâ€“Ligand Interface and Internal Structure of Ultrasmall Silver Nanoparticles (2 nm). Journal of Physical Chemistry B, 2021, 125, 5645-5659.	1.2	10
9	Pathways for Oral and Rectal Delivery of Gold Nanoparticles (1.7 nm) and Gold Nanoclusters into the Colon: Enteric-Coated Capsules and Suppositories. Molecules, 2021, 26, 5069.	1.7	5
10	New Tools to Probe the Protein Surface: Ultrasmall Gold Nanoparticles Carry Amino Acid Binders. Journal of Physical Chemistry B, 2021, 125, 115-127.	1.2	12
11	An Efficient Method for Covalent Surface Functionalization of Ultrasmall Metallic Nanoparticles by Surface Azidation Followed by Copperâ€Catalyzed Azideâ€Alkyne Cycloaddition (Click Chemistry). ChemNanoMat, 2021, 7, 1330-1339.	1.5	13
12	Enhanced dissolution of silver nanoparticles in a physical mixture with platinum nanoparticles based on the sacrificial anode effect. Nanotechnology, 2020, 31, 055703.	1.3	8
13	Temperature-Induced Stress Relaxation in Alloyed Silverâ€“Gold Nanoparticles (7â€“8 nm) by in Situ X-ray Powder Diffraction. Crystal Growth and Design, 2020, 20, 107-115.	1.4	4
14	Subtoxic cell responses to silica particles with different size and shape. Scientific Reports, 2020, 10, 21591.	1.6	23
15	Ultrasmall gold nanoparticles (2Ânm) can penetrate and enter cell nuclei in an in vitro 3D brain spheroid model. Acta Biomaterialia, 2020, 111, 349-362.	4.1	51
16	Synthesis, Structure, Properties, and Applications of Bimetallic Nanoparticles of Noble Metals. Advanced Functional Materials, 2020, 30, 1909260.	7.8	274
17	Synthesis and intracellular tracing surface-functionalized calcium phosphate nanoparticles by super-resolution microscopy (STORM). Materialia, 2020, 12, 100773.	1.3	4
18	Development of a bone substitute material based on additive manufactured Ti6Al4V alloys modified with bioceramic calcium carbonate coating: Characterization and antimicrobial properties. Ceramics International, 2020, 46, 25661-25670.	2.3	12

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19	Comparative Study of the Structure, Properties, and Corrosion Behavior of Sr-Containing Biocoatings on Mg0.8Ca. Materials, 2020, 13, 1942.	1.3	14
20	In Vivo Effects of a Hydroxyapatite-Based Oral Care Gel on the Calcium and Phosphorus Levels of Dental Plaque. European Journal of Dentistry, 2020, 14, 206-211.	0.8	19
21	Frontispiece: Nanoscopic Porous Iridium/Iridium Dioxide Superstructures (15â€...nm): Synthesis and Thermal Conversion by Inâ€...Situ Transmission Electron Microscopy. Chemistry - A European Journal, 2019, 25, .	1.7	0
22	Nanoscopic Porous Iridium/Iridium Dioxide Superstructures (15â€...nm): Synthesis and Thermal Conversion by Inâ€...Situ Transmission Electron Microscopy. Chemistry - A European Journal, 2019, 25, 11048-11057.	1.7	4
23	Synthesis of Metallic and Metal Oxide Particles. Nanoscience and Technology, 2019, , 3-27.	1.5	3
24	Stability of Nanoparticle Dispersions and Particle Agglomeration. Nanoscience and Technology, 2019, , 85-100.	1.5	8
25	Click Chemistry on the Surface of Ultrasmall Gold Nanoparticles (2 nm) for Covalent Ligand Attachment Followed by NMR Spectroscopy. Langmuir, 2019, 35, 7191-7204.	1.6	38
26	Decreased bacterial colonization of additively manufactured Ti6Al4V metallic scaffolds with immobilized silver and calcium phosphate nanoparticles. Applied Surface Science, 2019, 480, 822-829.	3.1	47
27	Bimetallic silverâ€“platinum nanoparticles with combined osteo-promotive and antimicrobial activity. Nanotechnology, 2019, 30, 305101.	1.3	34
28	Optimized biological tools: ultrastructure of rodent and bat teeth compared to human teeth. Bioinspired, Biomimetic and Nanobiomaterials, 2019, 8, 247-253.	0.7	1
29	Glancing Angle Deposition of Zn-Doped Calcium Phosphate Coatings by RF Magnetron Sputtering. Coatings, 2019, 9, 220.	1.2	25
30	Adhesion, proliferation, and osteogenic differentiation of human mesenchymal stem cells on additively manufactured Ti6Al4V alloy scaffolds modified with calcium phosphate nanoparticles. Colloids and Surfaces B: Biointerfaces, 2019, 176, 130-139.	2.5	37
31	Functionalization of titania nanotubes with electrophoretically deposited silver and calcium phosphate nanoparticles: Structure, composition and antibacterial assay. Materials Science and Engineering C, 2019, 97, 420-430.	3.8	48
32	Solution NMR Spectroscopy with Isotope-Labeled Cysteine (¹³C and ¹⁵N) Reveals the Surface Structure of <scp>l</scp>-Cysteine-Coated Ultrasmall Gold Nanoparticles (1.8) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.8	
33	Deciphering the Surface Composition and the Internal Structure of Alloyed Silverâ€“Gold Nanoparticles. Chemistry - A European Journal, 2018, 24, 9051-9060.	1.7	32
34	Synthesis and biological characterization of alloyed silverâ€“platinum nanoparticles: from compact coreâ€“shell nanoparticles to hollow nanoalloys. RSC Advances, 2018, 8, 38582-38590.	1.7	15
35	Comparative biological effects of spherical noble metal nanoparticles (Rh, Pd, Ag, Pt, Au) with 4â€“8 nm diameter. Beilstein Journal of Nanotechnology, 2018, 9, 2763-2774.	1.5	17
36	Immobilization of cesium from aqueous solution using nanoparticles of synthetic calcium phosphates. Chemistry Central Journal, 2018, 12, 87.	2.6	3

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37	Silver nanoparticles in complex media: an easy procedure to discriminate between metallic silver nanoparticles, reprecipitated silver chloride, and dissolved silver species. RSC Advances, 2018, 8, 24386-24391.	1.7	21
38	Wetâ€Chemical Synthesis of Pdâ€Au Coreâ€Shell Nanoparticles (8â€…nm): From Nanostructure to Biological Properties. ChemistrySelect, 2018, 3, 4994-5001.	0.7	13
39	3D biodegradable scaffolds of polycaprolactone with silicate-containing hydroxyapatite microparticles for bone tissue engineering: high-resolution tomography and in vitro study. Scientific Reports, 2018, 8, 8907.	1.6	88
40	Peculiarities in thermal evolution of precipitated amorphous calcium phosphates with an initial Ca/P ratio of 1:1. Journal of Materials Science: Materials in Medicine, 2017, 28, 52.	1.7	10
41	RF magnetron sputtering of a hydroxyapatite target: A comparison study on polytetrafluorethylene and titanium substrates. Applied Surface Science, 2017, 414, 335-344.	3.1	49
42	Incorporation of silver nanoparticles into magnetron-sputtered calcium phosphate layers on titanium as an antibacterial coating. Colloids and Surfaces B: Biointerfaces, 2017, 156, 104-113.	2.5	61
43	Nanoparticulate versus ionic silver: Behavior in the tank water, bioaccumulation, elimination and subcellular distribution in the freshwater mussel Dreissena polymorpha. Environmental Pollution, 2017, 222, 251-260.	3.7	10
44	Hybrid biocomposites based on titania nanotubes and a hydroxyapatite coating deposited by RF-magnetron sputtering: Surface topography, structure, and mechanical properties. Applied Surface Science, 2017, 426, 229-237.	3.1	51
45	Study of biocompatibility effect of nanocarbon particles on various cell types in vitro. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 216-221.	0.5	42
46	Comparison of different methods to study effects of silver nanoparticles on the pro- and antioxidant status of human keratinocytes and fibroblasts. Methods, 2016, 109, 55-63.	1.9	17
47	Barium sulfate micro- and nanoparticles as bioinert reference material in particle toxicology. Nanotoxicology, 2016, 10, 1492-1502.	1.6	17
48	On the Crystallography of Silver Nanoparticles with Different Shapes. Crystal Growth and Design, 2016, 16, 3677-3687.	1.4	23
49	Thermally induced crystallization and phase evolution in powders derived from amorphous calcium phosphate precipitates with a Ca/P ratio of 1:1. Journal of Crystal Growth, 2016, 450, 190-196.	0.7	17
50	Conjugation of thiol-terminated molecules to ultrasmall 2 nm-gold nanoparticles leads to remarkably complex ¹H-NMR spectra. Journal of Materials Chemistry B, 2016, 4, 2179-2189.	2.9	35
51	Effect of Porosity of Alumina and Zirconia Ceramics toward Pre-Osteoblast Response. Frontiers in Bioengineering and Biotechnology, 2015, 3, 175.	2.0	32
52	Hybrid biocomposite with a tunable antibacterial activity and bioactivity based on RF magnetron sputter deposited coating and silver nanoparticles. Applied Surface Science, 2015, 329, 212-218.	3.1	34
53	Particle-induced cell migration assay (PICMA): A new in vitro assay for inflammatory particle effects based on permanent cell lines. Toxicology in Vitro, 2015, 29, 997-1005.	1.1	16
54	Dental lessons from past to present: ultrastructure and composition of teeth from plesiosaurs, dinosaurs, extinct and recent sharks. RSC Advances, 2015, 5, 61612-61622.	1.7	22

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55	Nanostructure of wet-chemically prepared, polymer-stabilized silverâ€“gold nanoalloys (6 nm) over the entire composition range. Journal of Materials Chemistry B, 2015, 3, 4654-4662.	2.9	56
56	Interaction of dermatologically relevant nanoparticles with skin cells and skin. Beilstein Journal of Nanotechnology, 2014, 5, 2363-2373.	1.5	55
57	Mimicking exposures to acute and lifetime concentrations of inhaled silver nanoparticles by two different in vitro approaches. Beilstein Journal of Nanotechnology, 2014, 5, 1357-1370.	1.5	55
58	Proinflammatory and cytotoxic response to nanoparticles in precision-cut lung slices. Beilstein Journal of Nanotechnology, 2014, 5, 2440-2449.	1.5	18
59	The dissolution and biological effects of silver nanoparticles in biological media. Journal of Materials Chemistry B, 2014, 2, 1634.	2.9	305
60	Structural Evolution of Silver Nanoparticles during Wet-Chemical Synthesis. Chemistry of Materials, 2014, 26, 951-957.	3.2	91
61	The predominant species of ionic silver in biological media is colloidally dispersed nanoparticulate silver chloride. RSC Advances, 2014, 4, 35290.	1.7	41
62	PVP-coated, negatively charged silver nanoparticles: A multi-center study of their physicochemical characteristics, cell culture and in vivo experiments. Beilstein Journal of Nanotechnology, 2014, 5, 1944-1965.	1.5	119
63	Determination of the Ca/P ratio in calcium phosphates during the precipitation of hydroxyapatite using X-ray diffractometry. Processing and Application of Ceramics, 2013, 7, 93-95.	0.4	12
64	Study of structure of calcium phosphate materials by means of electron spin resonance. Applied Radiation and Isotopes, 2012, 70, 2621-2626.	0.7	7