

Kateryna Loza

List of Publications by Year in descending order

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64
papers

2,172
citations

236612

25
h-index

233125

45
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68
all docs

68
docs citations

68
times ranked

3715
citing authors

#	ARTICLE	IF	CITATIONS
1	The dissolution and biological effects of silver nanoparticles in biological media. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1634.	2.9	305
2	Synthesis, Structure, Properties, and Applications of Bimetallic Nanoparticles of Noble Metals. <i>Advanced Functional Materials</i> , 2020, 30, 1909260.	7.8	274
3	PVP-coated, negatively charged silver nanoparticles: A multi-center study of their physicochemical characteristics, cell culture and in vivo experiments. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1944-1965.	1.5	119
4	Structural Evolution of Silver Nanoparticles during Wet-Chemical Synthesis. <i>Chemistry of Materials</i> , 2014, 26, 951-957.	3.2	91
5	3D biodegradable scaffolds of polycaprolactone with silicate-containing hydroxyapatite microparticles for bone tissue engineering: high-resolution tomography and in vitro study. <i>Scientific Reports</i> , 2018, 8, 8907.	1.6	88
6	Incorporation of silver nanoparticles into magnetron-sputtered calcium phosphate layers on titanium as an antibacterial coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 156, 104-113.	2.5	61
7	Nanostructure of wet-chemically prepared, polymer-stabilized silver-gold nanoalloys (6 nm) over the entire composition range. <i>Journal of Materials Chemistry B</i> , 2015, 3, 4654-4662.	2.9	56
8	Interaction of dermatologically relevant nanoparticles with skin cells and skin. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 2363-2373.	1.5	55
9	Mimicking exposures to acute and lifetime concentrations of inhaled silver nanoparticles by two different in vitro approaches. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1357-1370.	1.5	55
10	Hybrid biocomposites based on titania nanotubes and a hydroxyapatite coating deposited by RF-magnetron sputtering: Surface topography, structure, and mechanical properties. <i>Applied Surface Science</i> , 2017, 426, 229-237.	3.1	51
11	Ultrasmall gold nanoparticles (2 nm) can penetrate and enter cell nuclei in an in vitro 3D brain spheroid model. <i>Acta Biomaterialia</i> , 2020, 111, 349-362.	4.1	51
12	RF magnetron sputtering of a hydroxyapatite target: A comparison study on polytetrafluorethylene and titanium substrates. <i>Applied Surface Science</i> , 2017, 414, 335-344.	3.1	49
13	Functionalization of titania nanotubes with electrophoretically deposited silver and calcium phosphate nanoparticles: Structure, composition and antibacterial assay. <i>Materials Science and Engineering C</i> , 2019, 97, 420-430.	3.8	48
14	Decreased bacterial colonization of additively manufactured Ti6Al4V metallic scaffolds with immobilized silver and calcium phosphate nanoparticles. <i>Applied Surface Science</i> , 2019, 480, 822-829.	3.1	47
15	Study of biocompatibility effect of nanocarbon particles on various cell types <i>in vitro</i> . <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016, 47, 216-221.	0.5	42
16	The predominant species of ionic silver in biological media is colloiddally dispersed nanoparticulate silver chloride. <i>RSC Advances</i> , 2014, 4, 35290.	1.7	41
17	Click Chemistry on the Surface of Ultrasmall Gold Nanoparticles (2 nm) for Covalent Ligand Attachment Followed by NMR Spectroscopy. <i>Langmuir</i> , 2019, 35, 7191-7204.	1.6	38
18	Adhesion, proliferation, and osteogenic differentiation of human mesenchymal stem cells on additively manufactured Ti6Al4V alloy scaffolds modified with calcium phosphate nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 130-139.	2.5	37

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19	Conjugation of thiol-terminated molecules to ultrasmall 2 nm-gold nanoparticles leads to remarkably complex ¹ H-NMR spectra. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2179-2189.	2.9	35
20	Hybrid biocomposite with a tunable antibacterial activity and bioactivity based on RF magnetron sputter deposited coating and silver nanoparticles. <i>Applied Surface Science</i> , 2015, 329, 212-218.	3.1	34
21	Bimetallic silver-platinum nanoparticles with combined osteo-promotive and antimicrobial activity. <i>Nanotechnology</i> , 2019, 30, 305101.	1.3	34
22	Effect of Porosity of Alumina and Zirconia Ceramics toward Pre-Osteoblast Response. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 175.	2.0	32
23	Deciphering the Surface Composition and the Internal Structure of Alloyed Silver-Gold Nanoparticles. <i>Chemistry - A European Journal</i> , 2018, 24, 9051-9060.	1.7	32
24	Solution NMR Spectroscopy with Isotope-Labeled Cysteine (¹³ C and ¹⁵ N) Reveals the Surface Structure of Cysteine-Coated Ultrasmall Gold Nanoparticles (1.8) <i>Journal of Materials Chemistry B</i> , 2019, 7, 1010-1018.	1.7	31
25	Glancing Angle Deposition of Zn-Doped Calcium Phosphate Coatings by RF Magnetron Sputtering. <i>Coatings</i> , 2019, 9, 220.	1.2	25
26	On the Crystallography of Silver Nanoparticles with Different Shapes. <i>Crystal Growth and Design</i> , 2016, 16, 3677-3687.	1.4	23
27	Subtoxic cell responses to silica particles with different size and shape. <i>Scientific Reports</i> , 2020, 10, 21591.	1.6	23
28	Dental lessons from past to present: ultrastructure and composition of teeth from plesiosaurs, dinosaurs, extinct and recent sharks. <i>RSC Advances</i> , 2015, 5, 61612-61622.	1.7	22
29	Silver nanoparticles in complex media: an easy procedure to discriminate between metallic silver nanoparticles, reprecipitated silver chloride, and dissolved silver species. <i>RSC Advances</i> , 2018, 8, 24386-24391.	1.7	21
30	In Vivo Effects of a Hydroxyapatite-Based Oral Care Gel on the Calcium and Phosphorus Levels of Dental Plaque. <i>European Journal of Dentistry</i> , 2020, 14, 206-211.	0.8	19
31	Proinflammatory and cytotoxic response to nanoparticles in precision-cut lung slices. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 2440-2449.	1.5	18
32	Comparison of different methods to study effects of silver nanoparticles on the pro- and antioxidant status of human keratinocytes and fibroblasts. <i>Methods</i> , 2016, 109, 55-63.	1.9	17
33	Barium sulfate micro- and nanoparticles as bioinert reference material in particle toxicology. <i>Nanotoxicology</i> , 2016, 10, 1492-1502.	1.6	17
34	Thermally induced crystallization and phase evolution in powders derived from amorphous calcium phosphate precipitates with a Ca/P ratio of 1:1. <i>Journal of Crystal Growth</i> , 2016, 450, 190-196.	0.7	17
35	Comparative biological effects of spherical noble metal nanoparticles (Rh, Pd, Ag, Pt, Au) with 8 nm diameter. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2763-2774.	1.5	17
36	Controlling the Surface Functionalization of Ultrasmall Gold Nanoparticles by Sequence-Defined Macromolecules. <i>Chemistry - A European Journal</i> , 2021, 27, 1451-1464.	1.7	17

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37	Peptide-Conjugated Ultrasmall Gold Nanoparticles (2 nm) for Selective Protein Targeting. ACS Applied Bio Materials, 2021, 4, 945-965.	2.3	17
38	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
39	Synthesis and biological characterization of alloyed silver-platinum nanoparticles: from compact core-shell nanoparticles to hollow nanoalloys. RSC Advances, 2018, 8, 38582-38590.	1.7	15
40	Comparative Study of the Structure, Properties, and Corrosion Behavior of Sr-Containing Biocoatings on Mg0.8Ca. Materials, 2020, 13, 1942.	1.3	14
41	Wet-Chemical Synthesis of Pd-Au Core-Shell Nanoparticles (8-...nm): From Nanostructure to Biological Properties. ChemistrySelect, 2018, 3, 4994-5001.	0.7	13
42	An Efficient Method for Covalent Surface Functionalization of Ultrasmall Metallic Nanoparticles by Surface Azidation Followed by Copper-Catalyzed Azide-Alkyne Cycloaddition (Click Chemistry). ChemNanoMat, 2021, 7, 1330-1339.	1.5	13
43	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
44	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
45	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
46	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
47	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
48	Targeting the Surface of the Protein 14-3-3 by Ultrasmall (1.5-...nm) Gold Nanoparticles Carrying the Specific Peptide CRaf. ChemBioChem, 2021, 22, 1456-1463.	1.3	10
49	Metal-Ligand Interface and Internal Structure of Ultrasmall Silver Nanoparticles (2 nm). Journal of Physical Chemistry B, 2021, 125, 5645-5659.	1.2	10
50	Stability of Nanoparticle Dispersions and Particle Agglomeration. Nanoscience and Technology, 2019, , 85-100.	1.5	8
51	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
52	Study of structure of calcium phosphate materials by means of electron spin resonance. Applied Radiation and Isotopes, 2012, 70, 2621-2626.	0.7	7
53	Water-Based Synthesis of Ultrasmall Nanoparticles of Platinum Group Metal Oxides (1.8 nm). Inorganic Chemistry, 2022, 61, 5133-5147.	1.9	6
54	Luminescent Amphiphilic Aminoglycoside Probes to Study Transfection. ChemBioChem, 2021, 22, 1563-1567.	1.3	5

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55	Pathways for Oral and Rectal Delivery of Gold Nanoparticles (1.7 nm) and Gold Nanoclusters into the Colon: Enteric-Coated Capsules and Suppositories. <i>Molecules</i> , 2021, 26, 5069.	1.7	5
56	Nanosopic Porous Iridium/Iridium Dioxide Superstructures (15â€¦nm): Synthesis and Thermal Conversion by Inâ€¦Situ Transmission Electron Microscopy. <i>Chemistry - A European Journal</i> , 2019, 25, 11048-11057.	1.7	4
57	Temperature-Induced Stress Relaxation in Alloyed Silverâ€¦Gold Nanoparticles (7â€¦8 nm) by in Situ X-ray Powder Diffraction. <i>Crystal Growth and Design</i> , 2020, 20, 107-115.	1.4	4
58	Synthesis and intracellular tracing surface-functionalized calcium phosphate nanoparticles by super-resolution microscopy (STORM). <i>Materialia</i> , 2020, 12, 100773.	1.3	4
59	Immobilization of cesium from aqueous solution using nanoparticles of synthetic calcium phosphates. <i>Chemistry Central Journal</i> , 2018, 12, 87.	2.6	3
60	Synthesis of Metallic and Metal Oxide Particles. <i>Nanoscience and Technology</i> , 2019, , 3-27.	1.5	3
61	Influence of Nanoparticle Processing on the Thermoelectric Properties of (Bi x Sb 1âˆ’x) 2 Te 3 Ternary Alloys. <i>ChemistryOpen</i> , 2021, 10, 189-198.	0.9	2
62	The effect of short silica fibers (0.3âˆ’3.2âˆ’4m) on macrophages. <i>Science of the Total Environment</i> , 2021, 769, 144575.	3.9	2
63	Optimized biological tools: ultrastructure of rodent and bat teeth compared to human teeth. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2019, 8, 247-253.	0.7	1
64	Frontispiece: Nanoscopic Porous Iridium/Iridium Dioxide Superstructures (15â€¦nm): Synthesis and Thermal Conversion by Inâ€¦Situ Transmission Electron Microscopy. <i>Chemistry - A European Journal</i> , 2019, 25, .	1.7	0