

Libor Kvitek

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

6,952
citations

218677

26
h-index

128289

60
g-index

64
all docs

64
docs citations

64
times ranked

11274
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver Colloid Nanoparticles: Synthesis, Characterization, and Their Antibacterial Activity. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16248-16253.	2.6	2,012
2	Antifungal activity of silver nanoparticles against <i>Candida</i> spp.. <i>Biomaterials</i> , 2009, 30, 6333-6340.	11.4	821
3	Effect of Surfactants and Polymers on Stability and Antibacterial Activity of Silver Nanoparticles (NPs). <i>Journal of Physical Chemistry C</i> , 2008, 112, 5825-5834.	3.1	812
4	Bacterial resistance to silver nanoparticles and how to overcome it. <i>Nature Nanotechnology</i> , 2018, 13, 65-71.	31.5	671
5	The targeted antibacterial and antifungal properties of magnetic nanocomposite of iron oxide and silver nanoparticles. <i>Biomaterials</i> , 2011, 32, 4704-4713.	11.4	286
6	Simple size-controlled synthesis of Au nanoparticles and their size-dependent catalytic activity. <i>Scientific Reports</i> , 2018, 8, 4589.	3.3	281
7	The influence of complexing agent concentration on particle size in the process of SERS active silver colloid synthesis. <i>Journal of Materials Chemistry</i> , 2005, 15, 1099-1105.	6.7	154
8	Acute and Chronic Toxicity Effects of Silver Nanoparticles (NPs) on <i>Drosophila melanogaster</i> . <i>Environmental Science & Technology</i> , 2011, 45, 4974-4979.	10.0	147
9	Silver nanoparticles strongly enhance and restore bactericidal activity of inactive antibiotics against multiresistant Enterobacteriaceae. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 392-399.	5.0	131
10	Polyacrylate-Assisted Size Control of Silver Nanoparticles and Their Catalytic Activity. <i>Chemistry of Materials</i> , 2014, 26, 1332-1339.	6.7	124
11	Strong and Nonspecific Synergistic Antibacterial Efficiency of Antibiotics Combined with Silver Nanoparticles at Very Low Concentrations Showing No Cytotoxic Effect. <i>Molecules</i> , 2016, 21, 26.	3.8	121
12	Hemocompatibility evaluation of different silver nanoparticle concentrations employing a modified Chandler-loop in vitro assay on human blood. <i>Acta Biomaterialia</i> , 2013, 9, 7460-7468.	8.3	111
13	Initial Study on the Toxicity of Silver Nanoparticles (NPs) against <i>Paramecium caudatum</i> . <i>Journal of Physical Chemistry C</i> , 2009, 113, 4296-4300.	3.1	110
14	Comprehensive study on surfactant role on silver nanoparticles (NPs) prepared via modified Tollens process. <i>Materials Chemistry and Physics</i> , 2008, 111, 77-81.	4.0	88
15	Enhanced antibacterial effect of antibiotics in combination with silver nanoparticles against animal pathogens. <i>Veterinary Journal</i> , 2016, 209, 174-179.	1.7	87
16	Polyacrylate-assisted synthesis of stable copper nanoparticles and copper(I) oxide nanocubes with high catalytic efficiency. <i>Journal of Materials Chemistry</i> , 2009, 19, 8463.	6.7	83
17	Magnetically Assisted Surface-Enhanced Raman Scattering Selective Determination of Dopamine in an Artificial Cerebrospinal Fluid and a Mouse Striatum Using Fe ₃ O ₄ /Ag Nanocomposite. <i>Analytical Chemistry</i> , 2014, 86, 2939-2946.	6.5	77
18	Magnetic gold nanocatalyst (nanocat-Fe@Au): catalytic applications for the oxidative esterification and hydrogen transfer reactions. <i>Green Chemistry</i> , 2014, 16, 4137-4143.	9.0	75

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19	Remarkable efficiency of ultrafine superparamagnetic iron(III) oxide nanoparticles toward arsenate removal from aqueous environment. <i>Chemosphere</i> , 2013, 93, 2690-2697.	8.2	63
20	Gold nanoparticle-decorated graphene oxide: Synthesis and application in oxidation reactions under benign conditions. <i>Journal of Molecular Catalysis A</i> , 2016, 424, 121-127.	4.8	57
21	Adsorption and photocatalysis of nanocrystalline TiO ₂ particles for Reactive Red 195 removal: effect of humic acids, anions and scavengers. <i>Environmental Science and Pollution Research</i> , 2015, 22, 16514-16524.	5.3	50
22	Silver Nanoparticles Modified by Gelatin with Extraordinary pH Stability and Long-Term Antibacterial Activity. <i>PLoS ONE</i> , 2014, 9, e103675.	2.5	48
23	Reproducible discrimination between Gram-positive and Gram-negative bacteria using surface enhanced Raman spectroscopy with infrared excitation. <i>Analyst, The</i> , 2012, 137, 2866.	3.5	45
24	Comparative Study of Antimicrobial Activity of AgBr and Ag Nanoparticles (NPs). <i>PLoS ONE</i> , 2015, 10, e0119202.	2.5	42
25	Nanocomposite of montmorillonite and silver nanoparticles: Characterization and application in catalytic reduction of 4-nitrophenol. <i>Materials Chemistry and Physics</i> , 2013, 140, 493-498.	4.0	40
26	Antibacterial nanomaterials: Upcoming hope to overcome antibiotic resistance crisis. <i>Nanotechnology Reviews</i> , 2022, 11, 1115-1142.	5.8	28
27	Re-crystallization of silver nanoparticles in a highly concentrated NaCl environment – a new substrate for surface enhanced IR-visible Raman spectroscopy. <i>CrystEngComm</i> , 2011, 13, 2242.	2.6	27
28	Synthesis, properties and crystal structures of R[MIII(bdt) ₂] complexes (M = Ni, Co, Cu). <i>Transition Metal Chemistry</i> , 2004, 29, 238-244.	1.4	26
29	Highly efficient Cu-decorated iron oxide nanocatalyst for low pressure CO ₂ conversion. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 128-138.	20.2	24
30	Discrimination of circulating tumor cells of breast cancer and colorectal cancer from normal human mononuclear cells using Raman spectroscopy. <i>Analyst, The</i> , 2013, 138, 5983.	3.5	23
31	Preparation, characterization and antimicrobial efficiency of Ag/PDDA-diatomite nanocomposite. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 110, 191-198.	5.0	23
32	Removal of silver nanoparticles with native and magnetically modified halloysite. <i>Applied Clay Science</i> , 2018, 162, 10-14.	5.2	22
33	Title is missing!. <i>Transition Metal Chemistry</i> , 2001, 26, 282-286.	1.4	20
34	Influence of various chloride ion concentrations on silver nanoparticle transformations and effectiveness in surface enhanced Raman scattering for different excitation wavelengths. <i>RSC Advances</i> , 2015, 5, 9737-9744.	3.6	20
35	Silver Voyage from Macro- to Nanoworld. <i>Journal of Chemical Education</i> , 2010, 87, 1094-1097.	2.3	16
36	Reproducible synthesis of silver colloidal particles tailored for application in near-infrared surface-enhanced Raman spectroscopy. <i>Journal of Materials Chemistry</i> , 2011, 21, 6416.	6.7	16

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37	Synthesis of silver nanoparticles by <i>Bacillus subtilis</i> growing on agro-industrial wastes and producing biosurfactant. IET Nanobiotechnology, 2016, 10, 62-68.	3.8	14
38	Specific detection of Staphylococcus aureus infection and marker for Alzheimer disease by surface enhanced Raman spectroscopy using silver and gold nanoparticle-coated magnetic polystyrene beads. Scientific Reports, 2021, 11, 6240.	3.3	12
39	Synthesis and Characterization of Cu(II), Co(II) and Ni(II) Complexes of Trithiocyanuric Acid: The Structure of {N,N'-Bis(3-Aminopropyl)-1,3-Propanediamine}-(Trithiocyanurato)Nickel(II). Journal of Coordination Chemistry, 2003, 56, 1-11.	2.2	11
40	Deposition of Nanostructured Ag Films on Silicon Wafers by Electrochemical/Electrophoretic Deposition for Electrochemical and SERS Sensing. Journal of the Electrochemical Society, 2013, 160, B54-B59.	2.9	11
41	Highly efficient silver particle layers on glass substrate synthesized by the sonochemical method for surface enhanced Raman spectroscopy purposes. Ultrasonics Sonochemistry, 2016, 32, 165-172.	8.2	11
42	Nitrogen-donor base adducts of bis(O,O'-di-isoamyldithiophosphato)nickel(II). Transition Metal Chemistry, 2000, 25, 715-719.	1.4	10
43	Culture medium mediated aggregation and re-crystallization of silver nanoparticles reduce their toxicity. Applied Materials Today, 2018, 12, 198-206.	4.3	10
44	Accurate determination of silver nanoparticles in animal tissues by inductively coupled plasma mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 102, 7-11.	2.9	8
45	Xanthate complexes of nickel with nitrogen donor ligands. Part V. Transition Metal Chemistry, 1999, 24, 633-637.	1.4	7
46	Quantification of purine basis in their mixtures at femtomolar concentration levels using FT-SERS. Journal of Raman Spectroscopy, 2012, 43, 971-976.	2.5	7
47	The effect of graphene oxide on signalling of xenobiotic receptors involved in biotransformation. Chemosphere, 2020, 253, 126753.	8.2	7
48	Restoration of antibacterial activity of inactive antibiotics via combined treatment with a cyanographene/Ag nanohybrid. Scientific Reports, 2022, 12, 5222.	3.3	7
49	Comment on "Preparation and antibacterial activity of Fe ₃ O ₄ @Ag nanoparticles". Nanotechnology, 2009, 20, 028001.	2.6	6
50	Preparation of silver particles and its application for surface enhanced Raman scattering with near-infrared excitation. Materials Research Bulletin, 2014, 50, 63-67.	5.2	6
51	Capillary isotachopheresis for separation of silver nanoparticles according to size. RSC Advances, 2015, 5, 59131-59136.	3.6	6
52	Physicochemical Aspects of Metal Nanoparticle Preparation. , 2020, , .		6
53	Microthermal-induced subcellular-targeted protein damage in cells on plasmonic nanosilver-modified surfaces evokes a two-phase HSP-p97/VCP response. Nature Communications, 2021, 12, 713.	12.8	6
54	Crucial cytotoxic and antimicrobial activity changes driven by amount of doped silver in biocompatible carbon nitride nanosheets. Colloids and Surfaces B: Biointerfaces, 2021, 202, 111680.	5.0	6

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55	The Catalytic Behaviour of NanoAg@montmorillonite Composite Materials. <i>Physics Procedia</i> , 2013, 44, 231-237.	1.2	4
56	Study of Antibacterial Activity of Silver NPs Against Animal Pathogens. <i>Advanced Science, Engineering and Medicine</i> , 2011, 3, 93-96.	0.3	4
57	The impact of graphene oxide on androgen receptor signalling in prostate cancer cells. <i>Chemosphere</i> , 2021, 269, 128759.	8.2	3
58	Hydrogenation of CO ₂ on Nanostructured Cu/FeO _x Catalysts: The Effect of Morphology and Cu Load on Selectivity. <i>Catalysts</i> , 2022, 12, 516.	3.5	3
59	Synthesis and magnetic properties of dithiooxamide-bridged nickel(II) complexes. <i>Transition Metal Chemistry</i> , 1999, 24, 88-91.	1.4	2
60	Hsp70 as an indicator of stress in the cells after contact with nanoparticles. <i>Journal of Physics: Conference Series</i> , 2015, 617, 012023.	0.4	2
61	Comment on "From Nanoparticles to Nanoplates: Preferential Oriented Connection of Ag Colloids during Electrophoretic Deposition". <i>Journal of Physical Chemistry C</i> , 2011, 115, 4980-4981.	3.1	1
62	Two-Step Preparation of Silver Nanoparticles. <i>Advanced Science, Engineering and Medicine</i> , 2011, 3, 160-163.	0.3	0
63	Study of Silver Nanoparticles Stabilization Performed by Gelatin. <i>Advanced Science, Engineering and Medicine</i> , 2011, 3, 155-159.	0.3	0