Libor Kvitek

List of Publications by Year
in descending order

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	Antibacterial nanomaterials: Upcoming hope to overcome antibiotic resistance crisis. Nanotechnology Reviews, 2022, 11, 1115-1142.	5.8	28
2	Restoration of antibacterial activity of inactive antibiotics via combined treatment with a cyanographene/Ag nanohybrid. Scientific Reports, 2022, 12, 5222.	3.3	7
3	Hydrogenation of CO2 on Nanostructured Cu/FeOx Catalysts: The Effect of Morphology and Cu Load on Selectivity. Catalysts, 2022, 12, 516.	3.5	3
4	The impact of graphene oxide on androgen receptor signalling in prostate cancer cells. Chemosphere, 2021, 269, 128759.	8.2	3
5	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
6	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
7	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
8	Physicochemical Aspects of Metal Nanoparticle Preparation. , 2020, , .		6
9	The effect of graphene oxide on signalling of xenobiotic receptors involved in biotransformation. Chemosphere, 2020, 253, 126753.	8.2	7
10	Simple size-controlled synthesis of Au nanoparticles and their size-dependent catalytic activity. Scientific Reports, 2018, 8, 4589.	3.3	281
11	Highly efficient Cu-decorated iron oxide nanocatalyst for low pressure CO2 conversion. Applied Catalysis B: Environmental, 2018, 225, 128-138.	20.2	24
12	Bacterial resistance to silver nanoparticles and how to overcome it. Nature Nanotechnology, 2018, 13, 65-71.	31.5	671
13	Removal of silver nanoparticles with native and magnetically modified halloysite. Applied Clay Science, 2018, 162, 10-14.	5.2	22
14	Culture medium mediated aggregation and re-crystallization of silver nanoparticles reduce their toxicity. Applied Materials Today, 2018, 12, 198-206.	4.3	10
15	Strong and Nonspecific Synergistic Antibacterial Efficiency of Antibiotics Combined with Silver Nanoparticles at Very Low Concentrations Showing No Cytotoxic Effect. Molecules, 2016, 21, 26.	3.8	121
16	Gold nanoparticle-decorated graphene oxide: Synthesis and application in oxidation reactions under benign conditions. Journal of Molecular Catalysis A, 2016, 424, 121-127.	4.8	57
17	Synthesis of silver nanoparticles by Bacillus subtilis Tâ€Âgrowing on agroâ€industrial wastes and producing biosurfactant. IET Nanobiotechnology, 2016, 10, 62-68.	3.8	14
18	Silver nanoparticles strongly enhance and restore bactericidal activity of inactive antibiotics against multiresistant Enterobacteriaceae. Colloids and Surfaces B: Biointerfaces, 2016, 142, 392-399.	5.0	131

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19	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
20	Enhanced antibacterial effect of antibiotics in combination with silver nanoparticles against animal pathogens. Veterinary Journal, 2016, 209, 174-179.	1.7	87
21	Comparative Study of Antimicrobial Activity of AgBr and Ag Nanoparticles (NPs). PLoS ONE, 2015, 10, e0119202.	2.5	42
22	Adsorption and photocatalysis of nanocrystalline TiO2 particles for Reactive Red 195 removal: effect of humic acids, anions and scavengers. Environmental Science and Pollution Research, 2015, 22, 16514-16524.	5.3	50
23	Capillary isotachophoresis for separation of silver nanoparticles according to size. RSC Advances, 2015, 5, 59131-59136.	3.6	6
24	Influence of various chloride ion concentrations on silver nanoparticle transformations and effectiveness in surface enhanced Raman scattering for different excitation wavelengths. RSC Advances, 2015, 5, 9737-9744.	3.6	20
25	Hsp70 as an indicator of stress in the cells after contact with nanoparticles. Journal of Physics: Conference Series, 2015, 617, 012023.	0.4	2
26	Silver Nanoparticles Modified by Gelatin with Extraordinary pH Stability and Long-Term Antibacterial Activity. PLoS ONE, 2014, 9, e103675.	2.5	48
27	Polyacrylate-Assisted Size Control of Silver Nanoparticles and Their Catalytic Activity. Chemistry of Materials, 2014, 26, 1332-1339.	6.7	124
28	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
29	Magnetically Assisted Surface-Enhanced Raman Scattering Selective Determination of Dopamine in an Artificial Cerebrospinal Fluid and a Mouse Striatum Using Fe₃O₄/Ag Nanocomposite. Analytical Chemistry, 2014, 86, 2939-2946.	6.5	77
30	Magnetic gold nanocatalyst (nanocat-Feâ€“Au): catalytic applications for the oxidative esterification and hydrogen transfer reactions. Green Chemistry, 2014, 16, 4137-4143.	9.0	75
31	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
32	Discrimination of circulating tumor cells of breast cancer and colorectal cancer from normal human mononuclear cells using Raman spectroscopy. Analyst, The, 2013, 138, 5983.	3.5	23
33	Preparation, characterization and antimicrobial efficiency of Ag/PDDA-diatomite nanocomposite. Colloids and Surfaces B: Biointerfaces, 2013, 110, 191-198.	5.0	23
34	Remarkable efficiency of ultrafine superparamagnetic iron(III) oxide nanoparticles toward arsenate removal from aqueous environment. Chemosphere, 2013, 93, 2690-2697.	8.2	63
35	The Catalytic Behaviour of NanoAg@montmorillonite Composite Materials. Physics Procedia, 2013, 44, 231-237.	1.2	4
36	Nanocomposite of montmorillonite and silver nanoparticles: Characterization and application in catalytic reduction of 4-nitrophenol. Materials Chemistry and Physics, 2013, 140, 493-498.	4.0	40

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37	Hemocompatibility evaluation of different silver nanoparticle concentrations employing a modified Chandler-loop in vitro assay on human blood. Acta Biomaterialia, 2013, 9, 7460-7468.	8.3	111
38	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
39	Quantification of purine basis in their mixtures at femtoâ€molar concentration levels using FTâ€SERS. Journal of Raman Spectroscopy, 2012, 43, 971-976.	2.5	7
40	Reproducible discrimination between Gram-positive and Gram-negative bacteria using surface enhanced Raman spectroscopy with infrared excitation. Analyst, The, 2012, 137, 2866.	3.5	45
41	Reproducible synthesis of silver colloidal particles tailored for application in near-infrared surface-enhanced Raman spectroscopy. Journal of Materials Chemistry, 2011, 21, 6416.	6.7	16
42	Comment on â€œFrom Nanoparticles to Nanoplates: Preferential Oriented Connection of Ag Colloids during Electrophoretic Depositionâ€• Journal of Physical Chemistry C, 2011, 115, 4980-4981.	3.1	1
43	Acute and Chronic Toxicity Effects of Silver Nanoparticles (NPs) on Drosophila melanogaster. Environmental Science & Technology, 2011, 45, 4974-4979.	10.0	147
44	Re-crystallization of silver nanoparticles in a highly concentrated NaCl environmentâ€”a new substrate for surface enhanced IR-visible Raman spectroscopy. CrystEngComm, 2011, 13, 2242.	2.6	27
45	The targeted antibacterial and antifungal properties of magnetic nanocomposite of iron oxide and silver nanoparticles. Biomaterials, 2011, 32, 4704-4713.	11.4	286
46	Study of Antibacterial Activity of Silver NPs Against Animal Pathogens. Advanced Science, Engineering and Medicine, 2011, 3, 93-96.	0.3	4
47	Two-Step Preparation of Silver Nanoparticles. Advanced Science, Engineering and Medicine, 2011, 3, 160-163.	0.3	0
48	Study of Silver Nanoparticles Stabilization Performed by Gelatin. Advanced Science, Engineering and Medicine, 2011, 3, 155-159.	0.3	0
49	Silver Voyage from Macro- to Nanoworld. Journal of Chemical Education, 2010, 87, 1094-1097.	2.3	16
50	Antifungal activity of silver nanoparticles against Candida spp.. Biomaterials, 2009, 30, 6333-6340.	11.4	821
51	Polyacrylate-assisted synthesis of stable copper nanoparticles and copper(I) oxide nanocubes with high catalytic efficiency. Journal of Materials Chemistry, 2009, 19, 8463.	6.7	83
52	Comment on â€˜Preparation and antibacterial activity of Fe₃O₄@Ag nanoparticlesâ€™. Nanotechnology, 2009, 20, 028001.	2.6	6
53	Initial Study on the Toxicity of Silver Nanoparticles (NPs) against Paramecium caudatum. Journal of Physical Chemistry C, 2009, 113, 4296-4300.	3.1	110
54	Effect of Surfactants and Polymers on Stability and Antibacterial Activity of Silver Nanoparticles (NPs). Journal of Physical Chemistry C, 2008, 112, 5825-5834.	3.1	812

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55	Comprehensive study on surfactant role on silver nanoparticles (NPs) prepared via modified Tollens process. Materials Chemistry and Physics, 2008, 111, 77-81.	4.0	88
56	Silver Colloid Nanoparticles:Â Synthesis, Characterization, and Their Antibacterial Activity. Journal of Physical Chemistry B, 2006, 110, 16248-16253.	2.6	2,012
57	The influence of complexing agent concentration on particle size in the process of SERS active silver colloid synthesis. Journal of Materials Chemistry, 2005, 15, 1099-1105.	6.7	154
58	Synthesis, properties and crystal structures of R[MIII(bdt)2] complexes (M = Ni, Co, Cu). Transition Metal Chemistry, 2004, 29, 238-244.	1.4	26
59	Synthesis and Characterization of Cu(II), Co(II) and Ni(II) Complexes of Trithiocyanuric Acid: The Structure of {N,Nâ€²-Bis(3-Aminopropyl)-1,3-Propanediamine}-(Trithiocyanurato)Nickel(II). Journal of Coordination Chemistry, 2003, 56, 1-11.	2.2	11
60	Title is missing!. Transition Metal Chemistry, 2001, 26, 282-286.	1.4	20
61	Nitrogen-donor base adducts of bis(O,Oâ€²-di-isoamyldithiophosphato)nickel(II). Transition Metal Chemistry, 2000, 25, 715-719.	1.4	10
62	Xanthate complexes of nickel with nitrogen donor ligands. Part V. Transition Metal Chemistry, 1999, 24, 633-637.	1.4	7
63	Synthesis and magnetic properties of dithiooxamide-bridged nickel(II) complexes. Transition Metal Chemistry, 1999, 24, 88-91.	1.4	2