

Alexey V Markin

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

632
citations

471509

17
h-index

580821

25
g-index

41
all docs

41
docs citations

41
times ranked

724
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical sensors for determination of biogenic amines in food. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4023-4036.	3.7	60
2	Copper nanostructures for chemical analysis using surface-enhanced Raman spectroscopy. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 108, 247-259.	11.4	56
3	Liquid-liquid extraction-assisted SERS-based determination of sulfamethoxazole in spiked human urine. <i>Analytica Chimica Acta</i> , 2020, 1109, 61-68.	5.4	43
4	New Surface-Enhanced Raman Scattering Platforms: Composite Calcium Carbonate Microspheres Coated with Astralen and Silver Nanoparticles. <i>Langmuir</i> , 2013, 29, 4140-4147.	3.5	36
5	Synthesis of magnetite hydrosols in inert atmosphere. <i>Colloid Journal</i> , 2013, 75, 483-486.	1.3	35
6	Copper nanoparticles for SERS-based determination of some cephalosporin antibiotics in spiked human urine. <i>Analytica Chimica Acta</i> , 2020, 1138, 9-17.	5.4	35
7	Sample pretreatment and SERS-based detection of ceftriaxone in urine. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2221-2227.	3.7	30
8	Raman spectroscopy based analysis inside photonic-crystal fibers. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 88, 185-197.	11.4	29
9	Calcium carbonate microparticles with embedded silver and magnetite nanoparticles as new SERS-active sorbent for solid phase extraction. <i>Mikrochimica Acta</i> , 2017, 184, 3937-3944.	5.0	29
10	Synthesis of Copper(I) Oxide Particles with Variable Color: Demonstrating Size-Dependent Optical Properties for High School Students. <i>Journal of Chemical Education</i> , 2016, 93, 704-707.	2.3	27
11	SERS-active sorbent based on aluminum oxide loaded with silver nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 495, 169-175.	4.7	24
12	Determination of methotrexate in spiked human urine using SERS-active sorbent. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7757-7766.	3.7	23
13	SERS detection of ceftriaxone and sulfadimethoxine using copper nanoparticles temporally protected by porous calcium carbonate. <i>Mikrochimica Acta</i> , 2018, 185, 481.	5.0	22
14	Effect of the number of iron oxide nanoparticle layers on the magnetic properties of nanocomposite LbL assemblies. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 2958-2963.	2.3	21
15	Application of Aluminum Hydroxide for Improvement of Label-Free SERS Detection of Some Cephalosporin Antibiotics in Urine. <i>Biosensors</i> , 2019, 9, 91.	4.7	19
16	Experimenting with Plasmonic Copper Nanoparticles To Demonstrate Color Changes and Reactivity at the Nanoscale. <i>Journal of Chemical Education</i> , 2019, 96, 1438-1442.	2.3	18
17	Association/Hydrogen Bonding of Acetone in Polar and Non-polar Solvents: NMR and NIR Spectroscopic Investigations with Chemometrics. <i>Journal of Solution Chemistry</i> , 2014, 43, 1963-1980.	1.2	17
18	Multifunctional silver nanoparticle-doped silica for solid-phase extraction and surface-enhanced Raman scattering detection. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	17

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19	Luminescent carbon nanostructures for microRNA detection. TrAC - Trends in Analytical Chemistry, 2019, 119, 115613.	11.4	16
20	Nanoencapsulated and microencapsulated SERS platforms for biomedical analysis. Current Opinion in Pharmacology, 2014, 18, 149-158.	3.5	13
21	Cyclodextrin-assisted surface-enhanced Raman spectroscopy: a critical review. Analytical and Bioanalytical Chemistry, 2022, 414, 923-942.	3.7	12
22	Composite multifunctional nanoparticles based on silica-coated gold-silver nanocages functionalized by Yb-hematoporphyrin. Nanotechnologies in Russia, 2011, 6, 496-503.	0.7	9
23	Layer-by-layer assembled highly absorbing hundred-layer films containing a phthalocyanine dye: Fabrication and photosensibilization by thermal treatment. Thin Solid Films, 2015, 583, 60-69.	1.8	9
24	Influence of electric field on the properties of the polymer stabilized luminescent quantum dots in aqueous solutions. Journal of Luminescence, 2016, 176, 65-70.	3.1	7
25	Hydrophilic quantum dots stability against an external low-strength electric field. Applied Surface Science, 2016, 363, 259-263.	6.1	6
26	Detection of sulfonamide drug in urine using liquid-liquid extraction and surface-enhanced Raman spectroscopy. , 2016, , .		4
27	Thermosensitivity of nanothermometer: CdSe/ZnS vs. CuInS ₂ /ZnS. , 2016, , .		3
28	The application of laser pointers for demonstration experiments in nanotechnology lessons at secondary school level. , 2017, , .		3
29	Light absorption in visible–NIR range by linear copper clusters (n = 2–22) with monoatomic thickness: a TD-DFT study. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	3
30	Red and blue shifts of spectral luminescence band of CuInS ₂ nanothermometers. , 2016, , .		2
31	Improvement of creatinine SERS detection using molecularly imprinted silica gel. , 2019, , .		2
32	Introduction to nanotechnology: a short course for high school students. , 2016, , .		1
33	Synthesis and investigation of rosin nanoparticles. , 2017, , .		1
34	Multicolored silica coated CdSe core/shell quantum dots. Proceedings of SPIE, 2016, , .	0.8	0
35	New SERS-active alumina-based sorbents containing Ag nanoparticles. , 2016, , .		0
36	Incorporation of iodine in polymeric microparticles and emulsions. Proceedings of SPIE, 2016, , .	0.8	0

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37	Lanthanide 5-sulfosalicylates and 3-amino-5-sulfosalicylates: Synthesis and estimation of thermal stability. Polyhedron, 2016, 111, 150-155.	2.2	0
38	Detection of rhodamine 6G in blood and urine using combination of surface-enhanced Raman spectroscopy and liquid-liquid extraction. Proceedings of SPIE, 2017, , .	0.8	0
39	Synthesis of SERS-nanotags and their investigation inside photonic crystal fiber. , 2017, , .		0
40	Influence of bending of monoatomic copper chains with 10 and 22 atoms on their absorbance spectra: TD-DFT calculations. , 2018, , .		0
41	SERS detection of some drugs using aluminum hydroxide with embedded copper nanoparticles. , 2019, , .		0