RafaÅ, Sitko

List of Publications by Year
in descending order

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103	3,858	172207	133063
papers	citations	29 h-index	59 g-index

103	103	103	4618
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Complete reconstruction of the process and conditions during gold smelting in the 15thâ€“17th centuries in ZÅ‚oty Stok based on metallurgical slags. Archaeometry, 2022, 64, 916-934.	0.6	4
2	Catalytic Removal of NOx on Ceramic Foam-Supported ZnO and TiO2 Nanorods Ornamented with W and V Oxides. Energies, 2022, 15, 1798.	1.6	4
3	Determination of ultra-trace gold in cosmetics using aluminum-magnesium layered double hydroxide/graphene oxide nanocomposite. Talanta, 2022, 245, 123460.	2.9	9
4	Sensitive determination of uranium using Î²-cyclodextrin modified graphene oxide and X-ray fluorescence techniques: EDXRF and TXRF. Talanta, 2022, 246, 123501.	2.9	10
5	Ultrasensitive and selective determination of mercury in water, beverages and food samples by EDXRF and TXRF using graphene oxide modified with thiosemicarbazide. Food Chemistry, 2022, 390, 133136.	4.2	8
6	Long-Term Isothermal Phase Transformation in Lead Zirconate. Materials, 2022, 15, 4077.	1.3	2
7	Thiosemicarbazide-grafted graphene oxide as superior adsorbent for highly efficient and selective removal of mercury ions from water. Separation and Purification Technology, 2021, 254, 117606.	3.9	35
8	Highly selective and sensitive determination of mercury ions by total-reflection X-ray fluorescence spectrometry. Journal of Analytical Atomic Spectrometry, 2021, 36, 1533-1543.	1.6	5
9	Ultratrace determination of metal ions using graphene oxide/carbon nanotubes loaded cellulose membranes and total-reflection X-ray fluorescence spectrometry: A green chemistry approach. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 177, 106069.	1.5	8
10	Toward a viable ecological method for regenerating a commercial SCR catalyst â€“ Selectively leaching surface deposits and reconstructing a pore landscape. Journal of Cleaner Production, 2021, 316, 128291.	4.6	10
11	Graphene oxide decorated with fullerenol nanoparticles for highly efficient removal of Pb(II) ions and ultrasensitive detection by total-reflection X-ray fluorescence spectrometry. Separation and Purification Technology, 2021, 277, 119450.	3.9	17
12	Cellulose mini-membranes modified with TiO2 for separation, determination, and speciation of arsenates and selenites. Mikrochimica Acta, 2020, 187, 430.	2.5	14
13	Nano-Ru Supported on Ni Nanowires for Low-Temperature Carbon Dioxide Methanation. Catalysts, 2020, 10, 513.	1.6	17
14	Influence of Nb⁵⁺ ions on phase transitions and polar disorder above T_C in PbZrO₃ studied by Raman spectroscopy. Journal of the American Ceramic Society, 2020, 103, 3657-3666.	1.9	8
15	Graphene Oxide/Carbon Nanotube Membranes for Highly Efficient Removal of Metal Ions from Water. ACS Applied Materials & Interfaces, 2019, 11, 28582-28590.	4.0	69
16	A green analytical method for ultratrace determination of hexavalent chromium ions based on micro-solid phase extraction using amino-silanized cellulose membranes. Microchemical Journal, 2019, 149, 104060.	2.3	25
17	A Study of Catalytic Oxidation of a Library of C2 to C4 Alcohols in the Presence of Nanogold. Nanomaterials, 2019, 9, 442.	1.9	1
18	Fast and sensitive determination of heavy metal ions as batophenanthroline chelates in food and water samples after dispersive micro-solid phase extraction using graphene oxide as sorbent. Microchemical Journal, 2019, 147, 30-36.	2.3	53

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19	Graphene Oxide Decorated with Cerium(IV) Oxide in Determination of Ultratrace Metal Ions and Speciation of Selenium. Analytical Chemistry, 2018, 90, 4150-4159.	3.2	25
20	The absorption- and luminescence spectra of Mn3+ in beryl and vesuvianite. Physics and Chemistry of Minerals, 2018, 45, 475-488.	0.3	22
21	Selective adsorption and determination of hexavalent chromium ions using graphene oxide modified with amino silanes. Mikrochimica Acta, 2018, 185, 117.	2.5	78
22	Defect induced lattice instabilities and competing interactions in niobium doped lead zirconate single crystals. Journal of Alloys and Compounds, 2018, 739, 499-503.	2.8	6
23	Method for the determination of Pb, Cd, Zn, Mn and Fe in rice samples using carbon nanotubes and cationic complexes of batophenanthroline. Food Chemistry, 2018, 249, 38-44.	4.2	58
24	Highly selective determination of ultratrace inorganic arsenic species using novel functionalized miniaturized membranes. Analytica Chimica Acta, 2018, 1008, 57-65.	2.6	20
25	Ceria nanoparticles deposited on graphene nanosheets for adsorption of copper(II) and lead(II) ions and of anionic species of arsenic and selenium. Mikrochimica Acta, 2018, 185, 264.	2.5	33
26	Determination and speciation of ultratrace arsenic and chromium species using aluminium oxide supported on graphene oxide. Talanta, 2018, 185, 264-274.	2.9	37
27	Electrolytic copper as cheap and effective catalyst for one-pot triazole synthesis. Scientific Reports, 2018, 8, 4496.	1.6	4
28	Alumina/nano-graphite composite as a new nanosorbent for the selective adsorption, preconcentration, and determination of chromium in water samples by EDXRF. Analytical and Bioanalytical Chemistry, 2018, 410, 7793-7802.	1.9	16
29	Mono- and bimetallic nano-Re systems doped Os, Mo, Ru, Ir as nanocatalytic platforms for the acetalization of polyalcohols into cyclic acetals and their applications as fuel additives. Applied Catalysis B: Environmental, 2018, 239, 154-167.	10.8	12
30	Graphene and Derivatives: Sample Handling. , 2018, , 340-340.		2
31	Oxide passivated Ni-supported Ru nanoparticles in silica: A new catalyst for low-temperature carbon dioxide methanation. Applied Catalysis B: Environmental, 2017, 206, 16-23.	10.8	49
32	The MÃ¶ssbauer spectra of prasiolite and amethyst crystals from Poland. Physics and Chemistry of Minerals, 2017, 44, 365-375.	0.3	12
33	Nano silica and molybdenum supported Re, Rh, Ru or Ir nanoparticles for selective solvent-free glycerol conversion to cyclic acetals with propanone and butanone under mild conditions. Applied Catalysis B: Environmental, 2017, 202, 335-345.	10.8	24
34	Graphene oxide/cellulose membranes in adsorption of divalent metal ions. RSC Advances, 2016, 6, 96595-96605.	1.7	95
35	How to detect metal species preconcentrated by microextraction techniques?. TrAC - Trends in Analytical Chemistry, 2016, 82, 412-424.	5.8	29
36	Preconcentration of Fe(III), Co(II), Ni(II), Cu(II), Zn(II) and Pb(II) with ethylenediamine-modified graphene oxide. Mikrochimica Acta, 2016, 183, 231-240.	2.5	78

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37	Catalytic Gas-Phase Glycerol Processing over SiO2-, Cu-, Ni- and Fe- Supported Au Nanoparticles. PLoS ONE, 2015, 10, e0142668.	1.1	4
38	Magnetic and specific heat properties of a new Gd-doped ZnCr2Se4. Materials Chemistry and Physics, 2015, 168, 187-192.	2.0	11
39	Green Approach for Ultratrace Determination of Divalent Metal Ions and Arsenic Species Using Total-Reflection X-ray Fluorescence Spectrometry and Mercapto-Modified Graphene Oxide Nanosheets as a Novel Adsorbent. Analytical Chemistry, 2015, 87, 3535-3542.	3.2	186
40	Determination and speciation of trace and ultratrace selenium ions by energy-dispersive X-ray fluorescence spectrometry using graphene as solid adsorbent in dispersive micro-solid phase extraction. Talanta, 2015, 134, 360-365.	2.9	57
41	Ni-Supported Pd Nanoparticles with Ca Promoter: A New Catalyst for Low-Temperature Ammonia Cracking. PLoS ONE, 2015, 10, e0136805.	1.1	20
42	Trace and ultratrace analysis of liquid samples by X-ray fluorescence spectrometry. TrAC - Trends in Analytical Chemistry, 2014, 53, 73-83.	5.8	95
43	Preconcentration of trace lead via formation of the bis(2,2-bipyridyl) complex and its adsorption on oxidized multiwalled carbon nanotubes. Mikrochimica Acta, 2014, 181, 1035-1040.	2.5	5
44	Trace and ultratrace determination of heavy metal ions by energy-dispersive X-ray fluorescence spectrometry using graphene as solid sorbent in dispersive micro solid-phase extraction. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2014, 94-95, 7-13.	1.5	54
45	Suspended Aminosilanized Graphene Oxide Nanosheets for Selective Preconcentration of Lead Ions and Ultrasensitive Determination by Electrothermal Atomic Absorption Spectrometry. ACS Applied Materials & Interfaces, 2014, 6, 20144-20153.	4.0	91
46	Indirect determination of dissolved silicate in surface water using energy-dispersive X-ray fluorescence spectrometry. Analyst, The, 2014, 139, 3911.	1.7	3
47	SiO 2 -, Cu-, and Ni-supported Au nanoparticles for selective glycerol oxidation in the liquid phase. Journal of Catalysis, 2014, 319, 110-118.	3.1	37
48	Spherical silica particles decorated with graphene oxide nanosheets as a new sorbent in inorganic trace analysis. Analytica Chimica Acta, 2014, 834, 22-29.	2.6	74
49	Graphene as a new sorbent in analytical chemistry. TrAC - Trends in Analytical Chemistry, 2013, 51, 33-43.	5.8	330
50	Energy-dispersive X-ray fluorescence spectrometry combined with dispersive liquidâ€“liquid microextraction for simultaneous determination of zinc and copper in water samples. Analytical Methods, 2013, 5, 6192.	1.3	14
51	A study on adsorption of metals by activated carbon in a large-scale (municipal) process of surface water purification. Open Chemistry, 2013, 11, 742-753.	1.0	10
52	Analytical possibilities of different X-ray fluorescence systems for determination of trace elements in aqueous samples pre-concentrated with carbon nanotubes. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 88, 192-197.	1.5	25
53	Graphene oxide as a solid sorbent for the preconcentration of cobalt, nickel, copper, zinc and lead prior to determination by energy-dispersive X-ray fluorescence spectrometry. Analytical Methods, 2013, 5, 6425.	1.3	77
54	Critical behavior of the 3D-Ising ferromagnets Cd[CrxTiy]Se4. Journal of Physics and Chemistry of Solids, 2013, 74, 1419-1425.	1.9	2

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55	Micro-electrodeposition in the presence of ionic liquid for the preconcentration of trace amounts of Fe, Co, Ni and Zn from aqueous samples. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 82, 60-64.	1.5	18
56	Electrochemically assisted sorption on oxidized multiwalled carbon nanotubes for preconcentration of Cr, Mn, Co, Ni, Cu and Zn from water samples. Analyst, The, 2013, 138, 2470.	1.7	9
57	Dispersive micro solid-phase extraction using multiwalled carbon nanotubes combined with portable total-reflection X-ray fluorescence spectrometry for the determination of trace amounts of Pb and Cd in water samples. Journal of Analytical Atomic Spectrometry, 2013, 28, 736.	1.6	95
58	Adsorption of divalent metal ions from aqueous solutions using graphene oxide. Dalton Transactions, 2013, 42, 5682.	1.6	710
59	Ultrasound-assisted solid-phase extraction using multiwalled carbon nanotubes for determination of cadmium by flame atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry, 2013, 28, 405.	1.6	24
60	Dispersive Micro Solid-Phase Extraction Using Multiwalled Carbon Nanotubes for Simultaneous Determination of Trace Metal Ions by Energy-Dispersive X-ray Fluorescence Spectrometry. Applied Spectroscopy, 2013, 67, 204-209.	1.2	27
61	Pre-Concentration Procedure Based on Chitosan Combined with Ionic Liquid for the Determination of Cobalt, Nickel, and Copper in Water Samples. Applied Spectroscopy, 2013, 67, 536-541.	1.2	4
62	Preconcentration of Trace Amounts of Zinc and Copper from Water Samples onto Polystyrene Foils Prior to Determination by Wavelength-Dispersive X-ray Fluorescence Spectrometry. Applied Spectroscopy, 2012, 66, 1082-1086.	1.2	3
63	Determination of selenium by X-ray fluorescence spectrometry using dispersive solid-phase microextraction with multiwalled carbon nanotubes as solid sorbent. Journal of Analytical Atomic Spectrometry, 2012, 27, 1688.	1.6	44
64	Directly suspended droplet microextraction combined with energy-dispersive X-ray fluorescence spectrometry to determine nano levels of phosphate in surface water. Journal of Analytical Atomic Spectrometry, 2012, 27, 460.	1.6	11
65	Dispersive liquidâ€“liquid microextraction using diethyldithiocarbamate as a chelating agent and the dried-spot technique for the determination of Fe, Co, Ni, Cu, Zn, Se and Pb by energy-dispersive X-ray fluorescence spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 73, 79-83.	1.5	71
66	Preconcentration via ion associated complexes combined with inductively coupled plasma optical emission spectrometry for determination of heavy metals. Talanta, 2012, 88, 391-395.	2.9	15
67	Carbon nanotubes as a solid sorbent for the preconcentration of Cr, Mn, Fe, Co, Ni, Cu, Zn and Pb prior to wavelength-dispersive X-ray fluorescence spectrometry. Talanta, 2012, 99, 918-923.	2.9	52
68	Modification of carbon nanotubes for preconcentration, separation and determination of trace-metal ions. TrAC - Trends in Analytical Chemistry, 2012, 37, 22-31.	5.8	138
69	Structural and magnetic properties of CuCr2Se4 single crystals diluted with Sb(III). Journal of Alloys and Compounds, 2012, 513, 353-358.	2.8	6
70	Liquid-phase microextraction as an attractive tool for multielement trace analysis in combination with X-ray fluorescence spectrometry: an example of simultaneous determination of Fe, Co, Zn, Ga, Se and Pb in water samples. Journal of Analytical Atomic Spectrometry, 2011, 26, 1979.	1.6	32
71	Determination of Lithium in Mineral Water Samples by X-Ray Fluorescence Spectrometry. Applied Spectroscopy, 2011, 65, 1218-1221.	1.2	11
72	Fast and simple method for determination of fatty acid methyl esters (FAME) in biodiesel blends using X-ray spectrometry. Talanta, 2011, 85, 2000-2006.	2.9	16

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73	Specific heat and magnetic susceptibility of single-crystalline ZnCr2Se4 spinels doped with Ga, In and Ce. Materials Chemistry and Physics, 2011, 131, 142-150.	2.0	13
74	Determination of rare earth elements by spectroscopic techniques: a review. Journal of Analytical Atomic Spectrometry, 2011, 26, 2373.	1.6	151
75	Nondestructive analysis of single crystals of selenide spinels by X-ray spectrometry techniques. Analytical and Bioanalytical Chemistry, 2011, 399, 3285-3292.	1.9	0
76	Quantitative X-ray fluorescence analysis of samples of less than â€˜infinite thicknessâ€™: Difficulties and possibilities. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 1161-1172.	1.5	80
77	The effects of doping ferromagnetic spinel CdCr2Se4 with Sb3+ ions. Journal of Solid State Chemistry, 2009, 182, 3149-3154.	1.4	9
78	Spin-glass-like behavior in ZnxCryAlzSe4. Journal of Physics and Chemistry of Solids, 2009, 70, 1175-1180.	1.9	12
79	Energy-dispersive X-ray fluorescence spectrometer for analysis of conventional and micro-samples: Preliminary assessment. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 436-441.	1.5	37
80	Determination of chemical composition of siderite in concretions by wavelength-dispersive X-ray spectrometry following selective dissolution. Talanta, 2009, 77, 1105-1110.	2.9	7
81	Influence of temperature on the critical fields in ZnCr2â^'xAlxSe4 antiferromagnets. Journal of Alloys and Compounds, 2009, 480, 67-69.	2.8	9
82	Structural and magnetic properties of Zn1â^'xSbxCr2â^'x/3Se4 (x=0.11, 0.16 and 0.20) single crystals. Journal of Solid State Chemistry, 2008, 181, 1970-1976.	1.4	9
83	Determination of thickness and composition of thin films by x-ray fluorescence spectrometry using theoretical influence coefficient algorithms. X-Ray Spectrometry, 2008, 37, 265-272.	0.9	9
84	Study on the influence of X-ray tube spectral distribution on the analysis of bulk samples and thin films: Fundamental parameters method and theoretical coefficient algorithms. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 1297-1302.	1.5	12
85	Standardless energy-dispersive X-ray fluorescence analysis using primary radiation monochromatized with LiF(200) crystal. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 1303-1308.	1.5	9
86	Indirect determination of beryllium by X-ray fluorescence spectrometry via a complex with cobalt. Journal of Analytical Atomic Spectrometry, 2008, 23, 1628.	1.6	5
87	On the nâ€“p phase transition in CdCr2â^'xSbxSe4. Journal of Alloys and Compounds, 2007, 442, 186-188.	2.8	2
88	Influence of X-ray tube spectral distribution on uncertainty of calculated fluorescent radiation intensity. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 777-786.	1.5	11
89	Determination of Te, Bi, Ni, Sb and Au by X-ray fluorescence spectrometry following electroenrichment on a copper cathode. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1147-1152.	1.5	30
90	Correction of matrix effects via scattered radiation in X-ray fluorescence analysis of samples collected on membrane filters. Journal of Analytical Atomic Spectrometry, 2006, 21, 1062.	1.6	18

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91	Chemofiltration of mercury water samples through zinc sulfide layer and determination by wavelength-dispersive X-ray fluorescence spectrometry. Journal of Analytical Atomic Spectrometry, 2006, 21, 13-18.	1.6	20
92	Theoretical influence coefficients for correction of matrix effects in x-ray fluorescence analysis of intermediate-thickness samples. X-Ray Spectrometry, 2006, 35, 93-100.	0.9	15
93	Determination of trace elements in suspensions and filtrates of drinking and surface water by wavelength-dispersive X-ray fluorescence spectrometry. Analytical and Bioanalytical Chemistry, 2006, 384, 1600-1604.	1.9	11
94	Stoichiometry determination of (Pb,La)(Zr,Ti)O3-type nano-crystalline ferroelectric ceramics by wavelength-dispersive X-ray fluorescence spectrometry. Analytical and Bioanalytical Chemistry, 2006, 385, 971-974.	1.9	8
95	Calibration of wavelength-dispersive X-ray spectrometer for standardless analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 95-100.	1.5	14
96	Empirical coefficients models for x-ray fluorescence analysis of intermediate-thickness samples. X-Ray Spectrometry, 2005, 34, 11-18.	0.9	13
97	Fundamental parameters method for determination of rare earth elements in apatites by wavelength-dispersive X-ray fluorescence spectrometry. Journal of Analytical Atomic Spectrometry, 2005, 20, 741.	1.6	25
98	Multielement XRF Semimicroanalysis of Pb(Zr,Ti)O 3 Type Ferroelectric Ceramic Materials Doped with Pb(Nb,Mn)O 3 and Bi 2 O 3 by the Thin Layer Method. Mikrochimica Acta, 2004, 144, 9-15.	2.5	15
99	Determination of trace elements in ZnSâ€“Ag+and ZnSâ€“Cu+type luminophore materials by X-ray fluorescence spectrometry following trace-matrix separation and co-precipitation. Journal of Analytical Atomic Spectrometry, 2004, 19, 995-999.	1.6	6
100	X-ray fluorescence solution semi-microanalysis of the luminophore type materials using scattered radiation and attenuation coefficients. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 1917-1925.	1.5	7
101	Determination of absorption correction by the ?two masses? method for XRF analysis of intermediate samples. X-Ray Spectrometry, 2003, 32, 113-118.	0.9	8
102	XRF Analysis of Microsamples of Semiconductor Type Multielement Materials by the Thin Layer Method. Determination of Cr, Co, Ni, Cu, Zn, Ga, Se, Sb, Yb. Mikrochimica Acta, 1999, 132, 41-47.	2.5	12
103	X-Ray Analysis of the New Ferrites CuCr_{2-x}Fe_xSe₄. Solid State Phenomena, 0, 163, 217-220.	0.3	1