

Stanislav Musil

List of Publications by Year in descending order

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46
papers

1,010
citations

394421

19
h-index

454955

30
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47
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47
docs citations

47
times ranked

592
citing authors

#	ARTICLE	IF	CITATIONS
1	Detailed evaluation of conditions of photochemical vapor generation for sensitive determination of nickel in water samples by ICP-MS detection. <i>Microchemical Journal</i> , 2022, 172, 106963.	4.5	10
2	GC-MS exploration of photochemically generated species of Os, W and Ru from reductive and oxidative media. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 528-534.	3.0	10
3	Ultra-sensitive speciation analysis of tellurium by manganese and iron assisted photochemical vapor generation coupled to ICP-MS/MS. <i>Analytica Chimica Acta</i> , 2022, 1201, 339634.	5.4	17
4	Chemical vapor generation of transition and noble metals. , 2022, , 91-128.		2
5	A mass spectrometric study of hydride generated arsenic species identified by direct analysis in real time (DART) following cryotrapping. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 3443-3453.	3.7	1
6	Efficient photochemical vapor generation of bismuth using a coiled Teflon reactor: Effect of metal sensitizers and analytical performance with flame-in-gas-shield atomizer and atomic fluorescence spectrometry. <i>Microchemical Journal</i> , 2021, 164, 105997.	4.5	18
7	Natural or intended mummification? Specific case of a child mummy. <i>Anthropologischer Anzeiger</i> , 2021, 78, 219-236.	0.4	0
8	Effect of additives on cadmium chemical vapor generation and reliable quantification of generation efficiency. <i>Analytica Chimica Acta</i> , 2021, 1168, 338601.	5.4	9
9	Ultrasensitive Detection of Ruthenium by Coupling Cobalt and Cadmium Ion-Assisted Photochemical Vapor Generation to Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 16543-16551.	6.5	18
10	Modular design of a trap-and-atomizer device with a gold absorber for selenium collection after hydride generation. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 107-116.	3.0	9
11	Generation of tellurium hydride and its atomization in a dielectric barrier discharge for atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 171, 105947.	2.9	15
12	UV photochemical vapor generation of Cd from a formic acid based medium: optimization, efficiency and interferences. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1380-1388.	3.0	23
13	Na ⁺ /K ⁺ -ATPase and lipid peroxidation in forebrain cortex and hippocampus of sleep-deprived rats treated with therapeutic lithium concentration for different periods of time. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020, 102, 109953.	4.8	14
14	Selenium preconcentration in a gold amalgamator after hydride generation for atomic spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2132-2141.	3.0	8
15	Atomic fluorescence spectrometry for ultrasensitive determination of bismuth based on hydride generation – the role of excitation source, interference filter and flame atomizers. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 993-1002.	3.0	12
16	Longitudinally monitored lifetime changes in blood heavy metal concentrations and their health effects in urban birds. <i>Science of the Total Environment</i> , 2020, 723, 138002.	8.0	15
17	Cadmium Assisted Photochemical Vapor Generation of Tungsten for Detection by Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 13306-13312.	6.5	47
18	Feasibility of <i>in situ</i> trapping of selenium hydride in a DBD atomizer for ultrasensitive Se determination by atomic absorption spectrometry studied with a ⁷⁵ Se radioactive indicator. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 193-202.	3.0	15

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19	Na ⁺ /K ⁺ -ATPase level and products of lipid peroxidation in live cells treated with therapeutic lithium for different periods in time (1, 7, and 28 days); studies of Jurkat and HEK293 cells. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2019, 392, 785-799.	3.0	4
20	Validation and inter-laboratory study of selective hydride generation for fast screening of inorganic arsenic in seafood. <i>Analytica Chimica Acta</i> , 2019, 1049, 20-28.	5.4	24
21	Investigation of hydride generation from arsenosugars - Is it feasible for speciation analysis?. <i>Analytica Chimica Acta</i> , 2018, 1008, 8-17.	5.4	15
22	Diethyldithiocarbamate enhanced chemical generation of volatile palladium species, their characterization by AAS, ICP-MS, TEM and DART-MS and proposed mechanism of action. <i>Analytica Chimica Acta</i> , 2018, 1005, 16-26.	5.4	28
23	Efficient Photochemical Vapor Generation of Molybdenum for ICPMS Detection. <i>Analytical Chemistry</i> , 2018, 90, 11688-11695.	6.5	52
24	Behavior of selenium hydride in heated quartz tube and dielectric barrier discharge atomizers. <i>Analytica Chimica Acta</i> , 2018, 1028, 11-21.	5.4	19
25	Induction of oxidative stress by long-term treatment of live HEK293 cells with therapeutic concentration of lithium is associated with down-regulation of μ -opioid receptor amount and function. <i>Biochemical Pharmacology</i> , 2018, 154, 452-463.	4.4	5
26	Chemical generation of volatile species of copper – Optimization, efficiency and investigation of volatile species nature. <i>Analytica Chimica Acta</i> , 2017, 977, 10-19.	5.4	16
27	Sample preparation for arsenic speciation analysis in baby food by generation of substituted arsines with atomic absorption spectrometry detection. <i>Talanta</i> , 2017, 175, 406-412.	5.5	22
28	Direct Speciation Analysis of Arsenic in Whole Blood and Blood Plasma at Low Exposure Levels by Hydride Generation-Cryotrapping-Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 9633-9637.	6.5	39
29	UV-photochemical vapor generation of selenium for atomic absorption spectrometry: Optimization and ⁷⁵ Se radiotracer efficiency study. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 123, 134-142.	2.9	20
30	Demethylation of Methylated Arsenic Species during Generation of Arsanes with Tetrahydridoborate(IV) in Acidic Media. <i>Analytical Chemistry</i> , 2016, 88, 6366-6373.	6.5	17
31	Achieving 100% Efficient Postcolumn Hydride Generation for As Speciation Analysis by Atomic Fluorescence Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 4041-4047.	6.5	28
32	Flame-in-gas-shield and miniature diffusion flame hydride atomizers for atomic fluorescence spectrometry: optimization and comparison. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 109, 16-23.	2.9	19
33	Gold volatile species atomization and preconcentration in quartz devices for atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 103-104, 155-163.	2.9	9
34	Sapphire: a better material for atomization and in situ collection of silver volatile species for atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 108, 61-67.	2.9	5
35	Speciation without Chromatography Using Selective Hydride Generation: Inorganic Arsenic in Rice and Samples of Marine Origin. <i>Analytical Chemistry</i> , 2014, 86, 993-999.	6.5	95
36	Hydride generation ICP-MS as a simple method for determination of inorganic arsenic in rice for routine biomonitoring. <i>Analytical Methods</i> , 2014, 6, 5392-5396.	2.7	37

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37	Speciation Analysis of Arsenic by Selective Hydride Generation-Cryotrapping-Atomic Fluorescence Spectrometry with Flame-in-Gas-Shield Atomizer: Achieving Extremely Low Detection Limits with Inexpensive Instrumentation. <i>Analytical Chemistry</i> , 2014, 86, 10422-10428.	6.5	50
38	Selective hydride generation-cryotrapping-ICP-MS for arsenic speciation analysis at picogram levels: analysis of river and sea water reference materials and human bladder epithelial cells. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1456.	3.0	47
39	Hydride generation α in-atomizer collection of Pb in quartz tube atomizers for atomic absorption spectrometry α a ^{212}Pb radiotracer study. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 344.	3.0	23
40	A sapphire tube atomizer for on-line atomization and in situ collection of bismuthine for atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 593.	3.0	9
41	In situ collection of volatile silver species in a new modular quartz tube atomizer for atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1382.	3.0	15
42	Loss of di- and trimethylarsine on Nafion membrane dryers following hydride generation. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 220-223.	3.0	28
43	Gold volatile compound generation: optimization, efficiency and characterization of the generated form. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 828-837.	3.0	37
44	Silver chemical vapor generation for atomic absorption spectrometry: minimization of transport losses, interferences and application to water analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1618.	3.0	35
45	Chemical vapor generation of silver for atomic absorption spectrometry with the multiatomizer: Radiotracer efficiency study and characterization of silver species. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 1240-1247.	2.9	34
46	On-line pre-reduction of pentavalent arsenicals by thioglycolic acid for speciation analysis by selective hydride generation α cryotrapping α atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 685-691.	2.9	35