

George J Havrilla

List of Publications by Year in descending order

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44
papers

789
citations

471509

17
h-index

552781

26
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44
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44
docs citations

44
times ranked

698
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining 3D X-ray Techniques; Computed Tomography and Fluorescence. <i>Microscopy and Microanalysis</i> , 2018, 24, 992-993.	0.4	0
2	Three dimensional subsurface elemental identification of minerals using confocal micro-X-ray fluorescence and micro-X-ray computed tomography. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 103-104, 144-154.	2.9	14
3	Determination of plutonium in spent nuclear fuel using high resolution X-ray. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015, 110, 91-95.	2.9	12
4	Non-destructive elemental quantification of polymer-embedded thin films using laboratory based X-ray techniques. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014, 101, 320-329.	2.9	17
5	Microfluidic sample preparation for elemental analysis in liquid samples using micro X-ray fluorescence spectrometry. <i>X-Ray Spectrometry</i> , 2014, 43, 332-337.	1.4	9
6	Laser-induced breakdown spectroscopy measurements of uranium and thorium powders and uranium ore. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 83-84, 28-36.	2.9	46
7	Investigation of total reflection X-ray fluorescence calibration with picoliter deposition arrays. <i>Microelectronic Engineering</i> , 2013, 102, 98-102.	2.4	8
8	Sixty-first Denver X-ray Conference and selected papers for the special June <i>Powder Diffraction</i> issue. <i>Powder Diffraction</i> , 2013, 28, 61-61.	0.2	0
9	Sixtieth Denver X-ray Conference and selected papers for the special June <i>Powder Diffraction</i> issue. <i>Powder Diffraction</i> , 2012, 27, 70-70.	0.2	0
10	Three-dimensional density measurements of ultra low density materials by X-ray scatter using confocal micro X-ray fluorescence spectroscopy. <i>X-Ray Spectrometry</i> , 2012, 41, 253-258.	1.4	19
11	Further Characterizations of Sputtered Copper Beryllium Capsules Using Confocal Micro X-Ray Fluorescence. <i>Fusion Science and Technology</i> , 2011, 59, 121-125.	1.1	6
12	58th Denver X-ray Conference and selected papers for the special June <i>Powder Diffraction</i> issue. <i>Powder Diffraction</i> , 2010, 25, 89-89.	0.2	0
13	Picoliter solution deposition for total reflection X-ray fluorescence analysis of semiconductor samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2010, 65, 805-811.	2.9	28
14	Integrating 3D images using laboratory-based micro X-ray computed tomography and confocal X-ray fluorescence techniques. <i>X-Ray Spectrometry</i> , 2010, 39, 184-190.	1.4	25
15	Picoliter Droplet Deposition Using a Prototype Picoliter Pipette: Control Parameters and Application in Micro X-ray Fluorescence. <i>Analytical Chemistry</i> , 2010, 82, 297-306.	6.5	38
16	Nondestructive Investigations of a Copper- and Argon-Doped Sputtered Beryllium Capsule Using X-Rays in Three Dimensions. <i>Fusion Science and Technology</i> , 2009, 55, 417-423.	1.1	12
17	Confocal Micro X-Ray Fluorescence: A New Paradigm in Materials Characterization. <i>Microscopy Today</i> , 2008, 16, 38-41.	0.3	2
18	Infrared Microspectroscopic Imaging Using a Large Radius Germanium Internal Reflection Element and a Focal Plane Array Detector. <i>Applied Spectroscopy</i> , 2007, 61, 1147-1152.	2.2	22

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19	MÃ¼ssbauer, NMR and ATR-FTIR spectroscopic investigation of degradation in RTV siloxane foams. <i>Polymer Degradation and Stability</i> , 2007, 92, 414-424.	5.8	58
20	An ultra high throughput, double combinatorial screening method of peptideâ€metal binding. <i>New Journal of Chemistry</i> , 2006, 30, 1145-1148.	2.8	8
21	Integrating X-Ray Fluorescence and Infrared Imaging Microspectroscopies for Comprehensive Characterization of an Acetaminophen Model Pharmaceutical. <i>Applied Spectroscopy</i> , 2006, 60, 471-478.	2.2	12
22	Elemental and Molecular Characterization of Aged Polydimethylsiloxane Foams. <i>Applied Spectroscopy</i> , 2006, 60, 1103-1110.	2.2	12
23	Attenuated Total Internal Reflection Infrared Microspectroscopic Imaging Using a Large-Radius Germanium Internal Reflection Element and a Linear Array Detector. <i>Applied Spectroscopy</i> , 2006, 60, 1256-1266.	2.2	37
24	Detection of visible and latent fingerprints by micro-X-ray fluorescence. <i>Powder Diffraction</i> , 2006, 21, 136-139.	0.2	6
25	Characterizing process semiconductor thin films with a confocal micro X-ray fluorescence microscope. <i>Powder Diffraction</i> , 2006, 21, 145-147.	0.2	4
26	Automated printing technology as a new tool for liquid sample preparation for micro x-ray fluorescence (MXRF). <i>X-Ray Spectrometry</i> , 2006, 35, 131-136.	1.4	15
27	Detection of Visible and Latent Fingerprints Using Micro-X-ray Fluorescence Elemental Imaging*. <i>Journal of Forensic Sciences</i> , 2006, 51, 57-63.	1.6	76
28	Preparation of mesoporous silica templated metal nanowire films on foamed nickel substrates. <i>Microporous and Mesoporous Materials</i> , 2006, 97, 114-121.	4.4	16
29	Automated nanoliter solution deposition for total reflection X-ray fluorescence analysis of semiconductor samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1091-1097.	2.9	14
30	Development of Nano-Micro-Macro-Structured Porous Nickel Electrodes for use in Supercapacitors. <i>Materials Research Society Symposia Proceedings</i> , 2006, 973, 1.	0.1	0
31	Elemental imaging for pharmaceutical tablet formulation analysis by micro X-ray fluorescence. <i>Powder Diffraction</i> , 2005, 20, 153-157.	0.2	10
32	Characterization of small particles by micro X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 1458-1467.	2.9	19
33	A high throughput screening method for the selection of zeolites for binding cations. <i>Chemical Communications</i> , 2005, , 4167.	4.1	4
34	Disilicide Diffusion Coating Inspection by Micro X-Ray Fluorescence Imaging. <i>Journal of Nondestructive Evaluation</i> , 2004, 23, 95-105.	2.4	5
35	Nanodroplets: a new method for dried spot preparation and analysis. <i>X-Ray Spectrometry</i> , 2004, 33, 101-106.	1.4	25
36	Semiconductor applications of nanoliter droplet methodology with total reflection x-ray fluorescence analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004, 59, 1117-1124.	2.9	27

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37	Micro X-ray fluorescence in materials characterization. Powder Diffraction, 2004, 19, 119-126.	0.2	32
38	Micro-X-ray Fluorescence as a General High-Throughput Screening Method for Catalyst Discovery and Small Molecule Recognition. ACS Combinatorial Science, 2003, 5, 245-252.	3.3	20
39	Capillary Electrophoresis Micro X-ray Fluorescence: A Tool for Benchtop Elemental Analysis. Analytical Chemistry, 2003, 75, 2048-2053.	6.5	18
40	Quantification of Large Scale Micro-X-Ray Fluorescence Elemental Images. Applied Spectroscopy, 2001, 55, 1448-1454.	2.2	7
41	<title>Monolithic polycapillary x-ray optics engineered to meet a wide range of applications</title> . , 2000, , .		44
42	Raman/SEM Chemical Imaging of a Residual Gallium Phase in a Mixed Oxide Feed Surrogate. Applied Spectroscopy, 2000, 54, 1362-1371.	2.2	14
43	Combining X-Ray Fluorescence Spectrometry and Vibrational Microscopy to Assess Highly Heterogeneous, Actinide-Contaminated Materials. Applied Spectroscopy, 1999, 53, 257-265.	2.2	14
44	Integration of Elemental and Molecular Imaging to Characterize Heterogeneous Inorganic Materials. Applied Spectroscopy, 1998, 52, 1505-1514.	2.2	34