

Piet Van Espen

List of Publications by Year in descending order

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31
papers

1,105
citations

687363

13
h-index

477307

29
g-index

33
all docs

33
docs citations

33
times ranked

1053
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of X-ray spectra by iterative least squares (AXIL): New developments. <i>X-Ray Spectrometry</i> , 1994, 23, 278-285.	1.4	419
2	AXIL-PC, software for the analysis of complex X-ray spectra. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1986, 1, 109-114.	3.5	215
3	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 2000, 36, 135-155.	3.2	94
4	An in-depth study of energy-dispersive x-ray spectra. <i>X-Ray Spectrometry</i> , 1980, 9, 126-133.	1.4	43
5	Description of Compton peaks in energy-dispersive x-ray fluorescence spectra. <i>X-Ray Spectrometry</i> , 2003, 32, 139-147.	1.4	41
6	Semiempirical approach for standardless calibration in μ -XRF spectrometry using capillary lenses. <i>X-Ray Spectrometry</i> , 2005, 34, 19-27.	1.4	30
7	Determination of sample thickness via scattered radiation in x-ray fluorescence spectrometry with filtered continuum excitation. <i>X-Ray Spectrometry</i> , 1990, 19, 29-33.	1.4	29
8	Monte Carlo simulation of conventional and synchrotron energy-dispersive x-ray spectrometers. <i>X-Ray Spectrometry</i> , 1993, 22, 234-243.	1.4	28
9	Calibration of tube excited energy-dispersive X-ray spectrometers with thin film standards and with fundamental constants. <i>X-Ray Spectrometry</i> , 1981, 10, 64-68.	1.4	24
10	Large Area Elemental Imaging Reveals Van Eyck's Original Paint Layers on the Ghent Altarpiece (1432), Rescoping Its Conservation Treatment. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4797-4801.	13.8	23
11	Calcutta Pollutants: Part II. Polynuclear Aromatic Hydrocarbon and Some Metal Concentration on Air Particulates During Winter 1984. <i>International Journal of Environmental Analytical Chemistry</i> , 1988, 32, 109-120.	3.3	17
12	Evaluation of energy-dispersive x-ray spectra of low-Z elements from electron-probe microanalysis of individual particles. <i>X-Ray Spectrometry</i> , 2001, 30, 419-426.	1.4	15
13	Evaluation of a practical background calculation method in X-ray energy analysis. <i>X-Ray Spectrometry</i> , 1976, 5, 123-128.	1.4	14
14	Unlocking the full potential of voltammetric data analysis: A novel peak recognition approach for (bio)analytical applications. <i>Talanta</i> , 2021, 233, 122605.	5.5	12
15	Methodology for spectrum evaluation in quantitative electron energy-loss spectrometry using the Zeiss CEM902. <i>Journal of Microscopy</i> , 1992, 166, 273-286.	1.8	11
16	Improved radiographic methods for the investigation of paintings using laboratory and synchrotron X-ray sources. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1068.	3.0	11
17	Structural characterization of organic molecules by negative ions in laser microprobe mass spectrometry. Part 2: Salts. <i>Organic Mass Spectrometry</i> , 1989, 24, 797-806.	1.3	10
18	Feasibility of Fourier Transform Laser Microprobe Mass Spectrometry for the Analysis of Lubricating Emulsions on Rolled Aluminium. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 1351-1360.	1.5	9

#	ARTICLE	IF	CITATIONS
19	Three-Dimensional Chemical Characterization of Complex Silver Halide Microcrystals by Scanning Ion Microprobe Mass Analysis. <i>Analytical Chemistry</i> , 1997, 69, 3772-3779.	6.5	9
20	Concentration profiles of metal contaminants in fluvial sediments of a rural-urban drainage basin in Tanzania. <i>International Journal of Environmental Analytical Chemistry</i> , 2014, 94, 77-98.	3.3	9
21	Characterization of Individual Soot Aggregates from Different Sources using Image Analysis. <i>Journal of Atmospheric Chemistry</i> , 2007, 56, 211-223.	3.2	7
22	Determination of homogeneity of standard materials by ion microscopy. <i>Mikrochimica Acta</i> , 1981, 75, 373-386.	5.0	6
23	Large-Area Elemental Imaging Reveals Van Eyck's Original Paint Layers on the Ghent Altarpiece (1432), Rescoping Its Conservation Treatment. <i>Angewandte Chemie</i> , 2017, 129, 4875-4879.	2.0	6
24	Modeling the charge deposition in quartz grains during natural irradiation and its influence on the optically stimulated luminescence signal. <i>Radiation Measurements</i> , 2021, 142, 106564.	1.4	6
25	Comparison of x-ray absorption and emission techniques for the investigation of paintings. <i>X-Ray Spectrometry</i> , 2015, 44, 141-148.	1.4	5
26	Study of the uniformity of aerosol filters by scanning MA-XRF. <i>X-Ray Spectrometry</i> , 2017, 46, 461-466.	1.4	5
27	A Silicon Microstrip System equipped with the RX64DTH ASIC for dual energy mammography. , 0, , .		2
28	High-performance x-ray silicon detector for reliable industrial and research XRF applications. <i>X-Ray Spectrometry</i> , 2005, 34, 417-420.	1.4	2
29	Absorption Corrections via Backscattered Radiation in Polychromatic Excitation Energy-Dispersive X-ray Fluorescence Spectrometry. <i>Advances in X-ray Analysis</i> , 1989, 33, 515-520.	0.0	2
30	Euroanalysis XIV The European Conference on Analytical Chemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1107-1108.	3.7	1
31	Large-Area Elemental Imaging Reveals Van Eyck's Original Paint Layers on the Ghent Altarpiece (1432), Rescoping Its Conservation Treatment (<i>Angew. Chem.</i> 17/2017). <i>Angewandte Chemie</i> , 2017, 129, 4972-4972.	2.0	0