

Georg Matuschek

List of Publications by Year in descending order

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56
papers

1,780
citations

257101

24
h-index

276539

41
g-index

58
all docs

58
docs citations

58
times ranked

2271
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal degradation of thermoplastic polyurethane elastomers (TPU) based on MDI. <i>Polymer Degradation and Stability</i> , 2002, 78, 323-331.	2.7	224
2	Particulate Matter from Both Heavy Fuel Oil and Diesel Fuel Shipping Emissions Show Strong Biological Effects on Human Lung Cells at Realistic and Comparable In Vitro Exposure Conditions. <i>PLoS ONE</i> , 2015, 10, e0126536.	1.1	111
3	Main products and kinetics of the thermal degradation of polyamides. <i>Chemosphere</i> , 2001, 42, 601-607.	4.2	93
4	Fast identification of polymer additives by pyrolysis-gas chromatography/mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 70, 35-42.	2.6	81
5	Thermal degradation of PVC cable insulation studied by simultaneous TG-FTIR and TG-EGA methods. <i>Journal of Thermal Analysis and Calorimetry</i> , 2004, 78, 621-630.	2.0	77
6	Aerosol emissions of a ship diesel engine operated with diesel fuel or heavy fuel oil. <i>Environmental Science and Pollution Research</i> , 2017, 24, 10976-10991.	2.7	65
7	Thermoanalytical and pyrolysis studies of nitrogen containing polymers. <i>Journal of Analytical and Applied Pyrolysis</i> , 2001, 58-59, 173-188.	2.6	60
8	Thermal stability and degradation of starch derivatives. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 85, 267-270.	2.0	57
9	Thermal degradation of different fire retardant polyurethane foams. <i>Thermochimica Acta</i> , 1995, 263, 59-71.	1.2	53
10	Determination of oxygenated polycyclic aromatic hydrocarbons in particulate matter using high-performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2006, 1133, 241-247.	1.8	50
11	Thermal degradation of halogen-free flame retardant epoxides and polycarbonate in air. <i>Journal of Analytical and Applied Pyrolysis</i> , 2001, 60, 55-67.	2.6	49
12	Thermal properties of starch succinates. <i>Thermochimica Acta</i> , 2005, 427, 163-166.	1.2	49
13	Title is missing!. <i>Magyar Árvizsgáló és Vizsgálókönyvek</i> , 2000, 59, 385-394.	1.4	39
14	Evolved gas analysis by single photon ionization-mass spectrometry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 1461-1469.	2.0	38
15	Characterization of Montmorillonite Saturated with Various Cations. <i>Magyar Árvizsgáló és Vizsgálókönyvek</i> , 1999, 56, 67-76.	1.4	34
16	Leaching behaviour of wood treated with creosote. <i>Chemosphere</i> , 2001, 42, 301-308.	4.2	34
17	Determination of basic nitrogen-containing polynuclear aromatic hydrocarbons formed during thermal degradation of polymers by high-performance liquid chromatography-fluorescence detection. <i>Journal of Chromatography A</i> , 2000, 878, 171-181.	1.8	33
18	Environmental Polycyclic Aromatic Hydrocarbons (PAHs) Enhance Allergic Inflammation by Acting on Human Basophils. <i>Inhalation Toxicology</i> , 2007, 19, 151-156.	0.8	33

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19	Thermal Resilience of Imidazolium-Based Ionic Liquids—Studies on Short- and Long-Term Thermal Stability and Decomposition Mechanism of 1-Alkyl-3-methylimidazolium Halides by Thermal Analysis and Single-Photon Ionization Time-of-Flight Mass Spectrometry. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8738-8749.	1.2	33
20	Thermoanalytical investigations for the recycling of PVC. <i>Thermochimica Acta</i> , 2000, 361, 77-84.	1.2	31
21	A liquid chromatography—atmospheric pressure photoionization tandem mass spectrometric method for the determination of azaarenes in atmospheric particulate matter. <i>Journal of Chromatography A</i> , 2010, 1217, 1636-1646.	1.8	30
22	Differential Impact of Diesel Particle Composition on Pro-allergic Dendritic Cell Function. <i>Toxicological Sciences</i> , 2010, 113, 85-94.	1.4	29
23	Rapid comprehensive characterization of crude oils by thermogravimetry coupled to fast modulated gas chromatography—single photon ionization time-of-flight mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7107-7116.	1.9	27
24	Characterization of PVC cable insulation materials and products obtained after removal of additives. <i>Journal of Applied Polymer Science</i> , 2006, 99, 788-795.	1.3	25
25	Organic Extracts of Urban Aerosol (PM _{2.5}) Enhance α 1-Induced Upregulation of CD63 in Basophils from Birch Pollen—Allergic Individuals. <i>Toxicological Sciences</i> , 2006, 90, 377-384.	1.4	24
26	Evolution of Volatile Flavor Compounds During Roasting of Nut Seeds by Thermogravimetry Coupled to Fast-Cycling Optical Heating Gas Chromatography-Mass Spectrometry with Electron and Photoionization. <i>Food Analytical Methods</i> , 2017, 10, 49-62.	1.3	24
27	Chemical Investigation of Eight Different Types of Carbonaceous Particles Using Thermoanalytical Techniques. <i>Environmental Science & Technology</i> , 2007, 41, 8406-8411.	4.6	23
28	Emission thermal analysis study of Na-montmorillonite and montmorillonite saturated with various cations. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 83, 617-623.	2.0	22
29	Regioselective Synthesis of a Branched Isomer of Nonylphenol, 4-(3,6-Dimethyl-3-heptyl)phenol, and Determination of its Important Environmental Properties. <i>Chemistry - A European Journal</i> , 2001, 7, 4790-4795.	1.7	21
30	Investigation of pyrolysis of chinese coals using thermal analysis/mass spectrometry. <i>Magyar Árvad Kémlemez</i> , 2003, 71, 601-612.	1.4	21
31	Lifetime simulation and thermal characterization of PVC cable insulation materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 82, 761-768.	2.0	21
32	Comparative studies of polymers using TA—MS, macro TA—MS and TA—FTIR. <i>Thermochimica Acta</i> , 2000, 361, 69-76.	1.2	20
33	On-line determination of polycyclic aromatic hydrocarbons in airborne particulate matter by using pyrolysis/GC—MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 70, 73-85.	2.6	20
34	Ecotoxicity of biocomposites based on renewable feedstock — Preliminary studies. <i>Chemosphere</i> , 2007, 70, 337-340.	4.2	18
35	Thermal analysis/evolved gas analysis using single photon ionization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 113, 1667-1673.	2.0	18
36	Breath gas monitoring during a glucose challenge by a combined PTR-QMS/GC—GC-TOFMS approach for the verification of potential volatile biomarkers. <i>Journal of Breath Research</i> , 2016, 10, 036003.	1.5	18

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37	Effect of functional groups on the thermal degradation of phosphorus- and phosphorus/nitrogen-containing functional polymers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 130, 799-812.	2.0	18
38	Thermal degradation of wood treated with creosote. <i>Journal of Analytical and Applied Pyrolysis</i> , 2001, 57, 15-36.	2.6	15
39	Emanation thermal analysis of TIXOTON (activated bentonite) treated with organic compounds. <i>Applied Clay Science</i> , 2002, 21, 295-302.	2.6	15
40	Dual-Stage Consumable-Free Thermal Modulator for the Hyphenation of Thermal Analysis, Gas Chromatography, and Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 640-644.	3.2	13
41	A macro STA-system for environmental samples. <i>Thermochimica Acta</i> , 1997, 295, 119-131.	1.2	12
42	An evolved gas analysis method for the characterization of sulfur vapor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 127, 955-960.	2.0	12
43	Optically Heated Ultra-Fast-Cycling Gas Chromatography Module for Separation of Direct Sampling and Online Monitoring Applications. <i>Analytical Chemistry</i> , 2015, 87, 8634-8639.	3.2	10
44	Description of Vapour Pressures of Polycyclic Aromatic Compounds by Graph Theoretical Indices. <i>QSAR and Combinatorial Science</i> , 1997, 16, 38-48.	1.4	9
45	Thermal analysis/mass spectrometry as a tool for studying environmental pollution by coal gasification. <i>Journal of Analytical and Applied Pyrolysis</i> , 1999, 51, 223-237.	2.6	9
46	A study on combustion of Chinese coals by TA/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 67, 393-406.	2.6	9
47	A minimal-invasive method for systemic bio-monitoring of the environmental pollutant phenanthrene in humans: Thermal extraction and gas chromatography $\hat{\wedge}$ mass spectrometry from 1 mL capillary blood. <i>Journal of Chromatography A</i> , 2017, 1487, 254-257.	1.8	9
48	EGA/MS Investigations on the Thermal Degradation of Diammoniumhexachloroplatinate. <i>Magyar Apr³vad K¹zlem¹nyek</i> , 1999, 56, 471-477.	1.4	7
49	Hyphenation of thermogravimetry and soft single photon ionization $\hat{\wedge}$ ion trap mass spectrometry (TG $\hat{\wedge}$ SPI $\hat{\wedge}$ ITMS) for evolved gas analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 116, 1471-1479.	2.0	7
50	Effect of branching on the degradation behaviour and caloric properties of PVC1Presented at the Twelfth Ulm-Freiberg Conference, Freiberg, Germany, 19 $\hat{\wedge}$ 21 March 19971. <i>Thermochimica Acta</i> , 1998, 310, 191-198.	1.2	5
51	Characterisation of aerosol particles using combined thermoanalytical techniques. <i>Journal of Thermal Analysis and Calorimetry</i> , 2004, 78, 575-586.	2.0	5
52	A systemic view on the distribution of diet-derived methanol and hepatic acetone in mice. <i>Journal of Breath Research</i> , 2018, 12, 017102.	1.5	4
53	Simultaneous thermal analysis/mass spectrometric detection of biological hazards. <i>Biological Mass Spectrometry</i> , 1988, 16, 447-449.	0.5	3
54	The role of thermal analysis in environmental protection. <i>Journal of Thermal Analysis</i> , 1996, 47, 317-330.	0.7	2

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55	Thermolysis Product Distribution of Solid Waste Obtained From Olive Oil Production. Clean - Soil, Air, Water, 2008, 36, 315-319.	0.7	2
56	Application of the Steam Jet Aerosol Collector (SJAC) for differential measurements of organic compounds in the gas vs. particle phase. International Journal of Environment and Pollution, 2009, 39, 223.	0.2	0