

Mladen Franko

List of Publications by Year in descending order

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87
papers

2,571
citations

186265

28
h-index

214800

47
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88
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docs citations

88
times ranked

2426
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanobody-Dependent Detection of <i>Microcystis aeruginosa</i> by ELISA and Thermal Lens Spectrometry. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 2729-2741.	2.9	11
2	Photodegradation mechanisms of reactive blue 19 dye under UV and simulated solar light irradiation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 252, 119481.	3.9	9
3	Thermo-Optical Characterization of Cu- and Zr-Modified TiO ₂ Photocatalysts by Beam Deflection Spectrometry. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10937.	2.5	9
4	A multi-thermal-lens approach to evaluation of multi-pass probe beam configuration in thermal lens spectrometry. <i>Analytica Chimica Acta</i> , 2020, 1100, 182-190.	5.4	19
5	Implementation of high performance liquid chromatography coupled to thermal lens spectrometry (HPLC-TLS) for quantification of pyranoanthocyanins during fermentation of Pinot Noir grapes. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	2
6	Thermal Effusivity Investigations of Solid Thermoelectrics Using the Front Photopyroelectric Detection. <i>International Journal of Thermophysics</i> , 2020, 41, 1.	2.1	3
7	Trace detection and photothermal spectral characterization by a tuneable thermal lens spectrometer with white-light excitation. <i>Talanta</i> , 2018, 183, 158-163.	5.5	26
8	A combination of interdisciplinary analytical tools for evaluation of multi-layered coatings on medical grade stainless steel for biomedical applications. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 128, 230-246.	4.3	28
9	Facile synthesis, structure, biocompatibility and antimicrobial property of gold nanoparticle composites from cellulose and keratin. <i>Journal of Colloid and Interface Science</i> , 2018, 510, 237-245.	9.4	46
10	Hemichrome Determination by Thermal Lensing with Polyethylene Glycols for Signal Enhancement in Aqueous Solutions. <i>Analytical Letters</i> , 2018, 51, 1743-1762.	1.8	9
11	The Effect of Cerium Ions on the Structure, Porosity and Electrochemical Properties of Si/Zr-Based Hybrid Sol-Gel Coatings Deposited on Aluminum. <i>Metals</i> , 2018, 8, 248.	2.3	16
12	Thermal Lens Spectrometry: Still a Technique on the Horizon?. <i>International Journal of Thermophysics</i> , 2016, 37, 1.	2.1	30
13	Application of high-performance liquid chromatography combined with ultra-sensitive thermal lens spectrometric detection for simultaneous biliverdin and bilirubin assessment at trace levels in human serum. <i>Talanta</i> , 2016, 154, 92-98.	5.5	41
14	Fast Screening Techniques for Neurotoxicogenic Substances and Other Toxicants and Pollutants Based on Thermal Lensing and Microfluidic Chips. <i>Analytical Sciences</i> , 2016, 32, 23-30.	1.6	22
15	One-Pot Synthesis of Biocompatible Silver Nanoparticle Composites from Cellulose and Keratin: Characterization and Antimicrobial Activity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34791-34801.	8.0	54
16	Bilirubin is an Endogenous Antioxidant in Human Vascular Endothelial Cells. <i>Scientific Reports</i> , 2016, 6, 29240.	3.3	99
17	Synthesis, structure and antimicrobial property of green composites from cellulose, wool, hair and chicken feather. <i>Carbohydrate Polymers</i> , 2016, 151, 1269-1276.	10.2	44
18	Microfluidic flow-injection thermal-lens microscopy for high-throughput and sensitive analysis of sub- μ L samples. <i>Analytical Methods</i> , 2016, 8, 5053-5060.	2.7	14

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19	Development of HPLC-DAD method for determination of neonicotinoids in honey. Journal of Food Composition and Analysis, 2015, 40, 106-113.	3.9	76
20	Determination of thermo-optical and transport parameters of $\text{Fe}(\text{III})$ oxide-based nanocomposites by beam deflection spectroscopy. Optical Materials, 2015, 42, 370-375.	3.6	9
21	Microfluidic Flow Injection Analysis with Thermal Lens Microscopic Detection for Determination of NGAL. International Journal of Thermophysics, 2015, 36, 932-939.	2.1	9
22	Microfluidic droplet-based liquid-liquid extraction: online model validation. Lab on a Chip, 2015, 15, 2233-2239.	6.0	26
23	Mode-mismatched confocal thermal-lens microscope with collimated probe beam. Review of Scientific Instruments, 2015, 86, 053701.	1.3	14
24	Determination of $\text{Fe}(\text{II})$ by Optimized Thermal Lens Microscope. International Journal of Thermophysics, 2015, 36, 2434-2440.	2.1	4
25	Carotenes in processed tomato after thermal treatment. Food Control, 2015, 48, 67-74.	5.5	17
26	Thermal Properties of Surface-Modified $\alpha\text{-Fe}_2\text{O}_3$ and $\epsilon\text{-Fe}_2\text{O}_3$ Photocatalysts Determined by Beam Deflection Spectroscopy. International Journal of Thermophysics, 2014, 35, 2107-2114.	2.1	9
27	Progress in Thermal Lens Spectrometry and Its Applications in Microscale Analytical Devices. Critical Reviews in Analytical Chemistry, 2014, 44, 328-353.	3.5	29
28	Influences of Detection Pinhole and Sample Flow on Thermal Lens Detection in Microfluidic Systems. International Journal of Thermophysics, 2014, 35, 2178-2186.	2.1	12
29	Direct determination of free bilirubin in serum at sub-nanomolar levels. Analytica Chimica Acta, 2014, 809, 174-182.	5.4	35
30	Development of multiresidue DLLME and QuEChERS based LC-MS/MS method for determination of selected neonicotinoid insecticides in honey liqueur. Food Research International, 2014, 55, 11-19.	6.2	78
31	Photothermal Deflection Experiments: Comparison of Existing Theoretical Models and Their Applications to Characterization of TiO_2 -Based Thin Films. International Journal of Thermophysics, 2014, 35, 2352-2362.	2.1	12
32	Optimization of a Thermal Lens Microscope for Detection in a Microfluidic Chip. International Journal of Thermophysics, 2014, 35, 2011-2022.	2.1	15
33	Thermal lens spectrometry under excitation of a divergent pump beam. Applied Physics B: Lasers and Optics, 2014, 115, 269-277.	2.2	13
34	Thermal lens spectrometric determination of ammonium in water samples based on indophenol formation with sodium salicylate. International Journal of Environment and Health, 2014, 7, 101.	0.3	1
35	Multi-residue method for determination of selected neonicotinoid insecticides in honey using optimized dispersive liquid-liquid microextraction combined with liquid chromatography-tandem mass spectrometry. Talanta, 2013, 111, 125-133.	5.5	117
36	Comparison of spectrophotometric and HPLC methods for determination of carotenoids in foods. Food Chemistry, 2013, 140, 390-397.	8.2	29

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37	Chitosan-cellulose composite materials: Preparation, Characterization and application for removal of microcystin. <i>Journal of Hazardous Materials</i> , 2013, 252-253, 355-366.	12.4	99
38	An incoherent light source excited thermal lens microscope. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	13
39	Theoretical description of thermal lens spectrometry in micro space. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	18
40	Thermal Lens Spectrometric Determination of Colloidal and Ionic Silver in Water. <i>International Journal of Thermophysics</i> , 2011, 32, 818-827.	2.1	15
41	Comparison of CIM discs and CPG glass as solid supports for bioanalytical columns used in allergen detection. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 555-562.	3.7	3
42	Flow injection method for the determination of silver concentration in drinking water for spacecrafts. <i>Analytica Chimica Acta</i> , 2010, 665, 69-73.	5.4	18
43	Determination of colloid silver in drinking water by flow injection analysis with TLS spectrometric UV detection. <i>Journal of Physics: Conference Series</i> , 2010, 214, 012119.	0.4	3
44	Oxidation of organophosphorus pesticides with chloroperoxidase enzyme in the presence of an ionic liquid as co-solvent. <i>Environmental Chemistry Letters</i> , 2009, 7, 267-270.	16.2	30
45	New approach in studies of microalgal cell lysis. <i>Open Life Sciences</i> , 2009, 4, 313-320.	1.4	3
46	Thermal Lens Spectrometric Detection in Flow Injection Analysis and Separation Techniques. <i>Applied Spectroscopy Reviews</i> , 2008, 43, 358-388.	6.7	48
47	Inhibition of AChE by malathion and some structurally similar compounds. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2008, 23, 562-573.	5.2	43
48	Application of chromogenic reagents in surface plasmon resonance (SPR). <i>Biosensors and Bioelectronics</i> , 2007, 22, 1163-1167.	10.1	2
49	Determination of selected neonicotinoid insecticides by liquid chromatography with thermal lens spectrometric detection. <i>Environmental Chemistry Letters</i> , 2007, 5, 203-208.	16.2	50
50	Double Dual Beam Thermal Lens Spectrometer for Monitoring of Phytoplankton Cell Lysis. <i>Instrumentation Science and Technology</i> , 2006, 34, 23-31.	1.8	5
51	Separation and Direct Detection of Long Chain Fatty Acids and their Methyl esters by the Non-Aqueous Reversed Phase HPLC and Silver Ion Chromatography, Combined with CO Laser Pumped Thermal Lens Spectrometry. <i>Instrumentation Science and Technology</i> , 2006, 34, 129-150.	1.8	10
52	Real-time quantitative investigation of photochemical reaction using thermal lens measurements: Theory and experiment. <i>Journal of Applied Physics</i> , 2006, 100, 044906.	2.5	38
53	Uptake of bilirubin into HepG2 cells assayed by thermal lens spectroscopy. <i>Function of bilitranslocase</i> . <i>FEBS Journal</i> , 2005, 272, 5522-5535.	4.7	54
54	Photodegradation of pesticides and application of bioanalytical methods for their detection. <i>Pure and Applied Chemistry</i> , 2005, 77, 1727-1736.	1.9	21

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55	Ionic Liquids as an Attractive Alternative Solvent for Thermal Lens Measurements. <i>Analytical Chemistry</i> , 2005, 77, 7442-7447.	6.5	30
56	Detection of organophosphate and carbamate pesticides in vegetable samples by a photothermal biosensor. <i>Biosensors and Bioelectronics</i> , 2003, 18, 1-9.	10.1	104
57	Laser-Induced Degradation of Organophosphates and Monitoring of Their Toxicity by Cholinesterase Biosensors. <i>Critical Reviews in Analytical Chemistry</i> , 2003, 33, 285-290.	3.5	5
58	Hyphenated high performance liquid chromatography-thermal lens spectrometry technique as a tool for investigations of xanthophyll cycle pigments in different taxonomic groups of marine phytoplankton. <i>Review of Scientific Instruments</i> , 2003, 74, 776-778.	1.3	14
59	Laser-induced degradation of organophosphorus compounds. <i>International Journal of Photoenergy</i> , 2002, 4, 41-44.	2.5	3
60	Fast quality screening of vegetable oils by HPLC-thermal lens spectrometric detection. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2002, 79, 1027-1031.	1.9	13
61	The effects of eluent mixing on TLS detection in gradient elution HPLC. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 323-328.	3.7	17
62	Ultrasensitive assays of trans- and cis- β -carotenes in vegetable oils by high-performance liquid chromatography-thermal lens detection. <i>Analytica Chimica Acta</i> , 2002, 460, 193-200.	5.4	27
63	Validation of different commercially available cholinesterases for pesticide toxicity test. <i>Annali Di Chimica</i> , 2002, 92, 93-101.	0.6	4
64	Effect of organic solvents in the on-line thermal lens spectrometric detection of chromium(III) and chromium(VI) after ion chromatographic separation. <i>Journal of Chromatography A</i> , 2001, 920, 119-125.	3.7	34
65	Determination of organophosphate and carbamate pesticides in spiked samples of tap water and fruit juices by a biosensor with photothermal detection. <i>Biosensors and Bioelectronics</i> , 1999, 14, 569-578.	10.1	82
66	Ultrasensitive determination of β -carotene in fish oil-based supplementary drugs by HPLC-TLS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1999, 21, 901-909.	2.8	36
67	Experimental considerations of simultaneous thermal lens and beam deflection phenomena. <i>Applied Optics</i> , 1999, 38, 3329.	2.1	1
68	Recent progress in agricultural, food and environmental applications of thermal lens spectrometry. , 1999, , .		0
69	Determination of iron in complex matrices by ion chromatography with UV-Vis, thermal lens and amperometric detection using post-column reagents. <i>Journal of Chromatography A</i> , 1998, 829, 167-174.	3.7	34
70	Determination of trans- β -carotene and other carotenoids in blood plasma using high-performance liquid chromatography and thermal lens detection. <i>Biomedical Applications</i> , 1998, 718, 47-54.	1.7	28
71	Differential Thermal Lens Spectrometry in the Infrared. <i>Israel Journal of Chemistry</i> , 1998, 38, 175-179.	2.3	8
72	Analytical thermal lens instrumentation. <i>Review of Scientific Instruments</i> , 1996, 67, 1-18.	1.3	350

#	ARTICLE	IF	CITATIONS
73	Thermal lens spectrometric determination of hexavalent chromium. <i>Analytica Chimica Acta</i> , 1996, 330, 245-250.	5.4	25
74	Application of thermal lens spectrometric detection to the determination of heavy metals by ion chromatography. <i>Journal of Chromatography A</i> , 1996, 739, 111-117.	3.7	33
75	Study of saturated triglycerides in oil based on the c.w. transverse CO ₂ laser excited photothermal deflection signals. <i>Infrared Physics and Technology</i> , 1995, 36, 617-622.	2.9	2
76	On-line thermal lens spectrometric detection of Cr(III) and Cr(VI) after separation by ion chromatography. <i>Journal of Chromatography A</i> , 1995, 706, 121-126.	3.7	43
77	Dual-Beam Thermal Lens Measurement of Condensed-Phase Sample at CO ₂ Laser Wavelengths: Detection of Octadecanoic Acid in Carbon Tetrachloride. <i>Applied Spectroscopy</i> , 1994, 48, 1457-1460.	2.2	7
78	Thermal lens effect in electrolyte and surfactant media. <i>The Journal of Physical Chemistry</i> , 1991, 95, 6688-6696.	2.9	57
79	Thermal lens technique for sensitive kinetic determinations of fast chemical reactions. Part I. Theory. <i>Review of Scientific Instruments</i> , 1991, 62, 2430-2437.	1.3	17
80	Thermal lens technique for sensitive kinetic determination of fast chemical reactions. Part II. Experiment. <i>Review of Scientific Instruments</i> , 1991, 62, 2438-2442.	1.3	20
81	Dual-wavelength thermal-lens spectrometry as a sensitive and selective method for trace gas analysis. <i>Journal of Physics E: Scientific Instruments</i> , 1989, 22, 586-589.	0.7	12
82	Temperature effect on photothermal lens phenomena in water: Photothermal defocusing and focusing. <i>Chemical Physics Letters</i> , 1989, 158, 31-36.	2.6	12
83	Simultaneous Determination of Two-Component Mixtures and pHs by Dual-Wavelength Thermal Lens Spectrometry. <i>Applied Spectroscopy</i> , 1989, 43, 661-668.	2.2	16
84	Water as a unique medium for thermal lens measurements. <i>Analytical Chemistry</i> , 1989, 61, 1660-1666.	6.5	23
85	Development of a double-beam, dual-wavelength thermal-lens spectrometer for simultaneous measurement of absorption at two different wavelengths. <i>Analytical Chemistry</i> , 1988, 60, 1925-1928.	6.5	33
86	Theoretical Analysis for Sensitivity Enhancement in Broad-Band Thermal Lens Microscope. <i>Advanced Materials Research</i> , 0, 503-504, 1480-1483.	0.3	1
87	Thermal Lens Microscopy: Characterization and Optimization. <i>Applied Mechanics and Materials</i> , 0, 624, 317-321.	0.2	0