

Peter Mojzes

List of Publications by Year in descending order

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68
papers

1,347
citations

361045

20
h-index

377514

34
g-index

72
all docs

72
docs citations

72
times ranked

1727
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing Applications of Laser-Ablated Ag Colloids in SERS Spectroscopy:Â Improvement of Ablation Procedure and SERS Spectral Testing. <i>Analytical Chemistry</i> , 1997, 69, 5103-5108.	3.2	170
2	Vibrational motions of bases of nucleic acids as revealed by neutron inelastic scattering and resonance Raman spectroscopy. 1. Adenine and its deuterated species. <i>The Journal of Physical Chemistry</i> , 1993, 97, 1074-1084.	2.9	79
3	Phosphorus starvation and luxury uptake in green microalgae revisited. <i>Algal Research</i> , 2019, 43, 101651.	2.4	71
4	Polymorphism of human telomeric quadruplex structure controlled by DNA concentration: a Raman study. <i>Nucleic Acids Research</i> , 2013, 41, 1005-1016.	6.5	67
5	SVDÂ€based method for intensity normalization, background correction and solvent subtraction in Raman spectroscopy exploiting the properties of water stretching vibrations. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1528-1539.	1.2	60
6	Interaction of electronically excited copper(II)-porphyrin with oligo- and polynucleotides: exciplex building process by photoinitiated axial ligation of porphyrin to thymine and uracil residues. <i>The Journal of Physical Chemistry</i> , 1993, 97, 4841-4847.	2.9	46
7	Growth of algal biomass in laboratory and in large-scale algal photobioreactors in the temperate climate of western Germany. <i>Bioresource Technology</i> , 2017, 234, 140-149.	4.8	43
8	Stable isotope compounds - production, detection, and application. <i>Biotechnology Advances</i> , 2018, 36, 784-797.	6.0	41
9	Raman microscopy shows that nitrogen-rich cellular inclusions in microalgae are microcrystalline guanine. <i>Algal Research</i> , 2017, 23, 216-222.	2.4	39
10	Quantification of Polyphosphate in Microalgae by Raman Microscopy and by a Reference Enzymatic Assay. <i>Analytical Chemistry</i> , 2017, 89, 12006-12013.	3.2	38
11	Charge Transport in DNA Oligonucleotides with Various Base-Pairing Patterns. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5196-5205.	1.2	34
12	A comparative study of surfaceÂ€enhanced Raman scattering from silverÂ€coated anodic aluminum oxide and porous silicon. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 12-20.	1.2	34
13	Time-Resolved Resonance Raman Study of the Exciplex Formed between Excited CuÂ²Porphyrin and DNA. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5018-5031.	1.2	33
14	Raman and fluorescence microscopy sensing energy-transducing and energy-storing structures in microalgae. <i>Algal Research</i> , 2016, 16, 224-232.	2.4	33
15	Surface-Enhanced Resonance Raman Scattering from Copper(II) 5,10,15,20-Tetrakis(1-methyl-4-pyridyl)porphyrin Adsorbed on Aggregated and Nonaggregated Silver Colloids. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3161-3167.	1.2	31
16	Guanine, a high-capacity and rapid-turnover nitrogen reserve in microalgal cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32722-32730.	3.3	30
17	Stability of local secondary structure determines selectivity of viral RNA chaperones. <i>Nucleic Acids Research</i> , 2018, 46, 7924-7937.	6.5	28
18	Spectral detection of J-aggregates of cationic porphyrin and investigation of conditions of their formation. <i>Journal of Molecular Structure</i> , 2005, 744-747, 265-272.	1.8	26

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19	Testing anionic spacers by SERRS (surface-enhanced resonance Raman scattering) of a cationic free-base porphyrin in systems with laser-ablated Ag colloids. <i>Vibrational Spectroscopy</i> , 1999, 19, 243-247.	1.2	25
20	Lincomycin Biosynthesis Involves a Tyrosine Hydroxylating Heme Protein of an Unusual Enzyme Family. <i>PLoS ONE</i> , 2013, 8, e79974.	1.1	24
21	The Arctic <i>Cylindrocapsa</i> (Zygnematophyceae, Streptophyta) Green Algae are Genetically and Morphologically Diverse and Exhibit Effective Accumulation of Polyphosphate. <i>Journal of Phycology</i> , 2020, 56, 217-232.	1.0	21
22	Surface-enhanced resonance Raman spectroscopy of porphyrin and metalloporphyrin species in systems with Ag nanoparticles and their assemblies. <i>Journal of Inorganic Biochemistry</i> , 2000, 79, 295-300.	1.5	20
23	Probing strong optical fields in compact aggregates of silver nanoparticles by SERRS of protoporphyrin IX. <i>Faraday Discussions</i> , 2006, 132, 121-134.	1.6	20
24	Surface-enhanced Raman scattering on silvered porous alumina templates: role of multipolar surface plasmon resonant modes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31780-31789.	1.3	20
25	The molecular force field of guanine and its deuterated species as determined from neutron inelastic scattering and resonance Raman measurements. <i>European Biophysics Journal</i> , 1993, 22, 225.	1.2	19
26	Towards phosphorus recycling for agriculture by algae: Soil incubation and rhizotron studies using ³³ P-labeled microalgal biomass. <i>Algal Research</i> , 2019, 43, 101634.	2.4	19
27	Excited States of Water-Soluble Metal Porphyrins as Microenvironmental Probes for DNA and DNA-Model Compounds: Time-Resolved Transient Absorption and Resonance Raman Studies of Ni(TMpy-P4) in [Poly(dG-dC)] ₂ and [Poly(dA-dT)] ₂ . <i>The Journal of Physical Chemistry</i> , 1996, 100, 12649-12659.	2.9	18
28	Characterization and surface-enhanced Raman spectral probing of silver hydrosols prepared by two-wavelength laser ablation and fragmentation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 2321-2329.	2.0	15
29	Does Raman spectroscopy recognize different G-quadruplex arrangements?. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 301-312.	1.2	13
30	Interactions of Electronically Excited Copper(II) Porphyrin with DNA: Resonance Raman Evidence for the Exciplex Formation with Adenine and Cytosine Residues. <i>Journal of Physical Chemistry B</i> , 2003, 107, 7532-7535.	1.2	12
31	Ag colloid-ethanethiol films: spacer-modified substrates for surface-enhanced resonance Raman scattering spectroscopy of chromophoric molecules. <i>Vibrational Spectroscopy</i> , 1999, 19, 239-242.	1.2	11
32	Comparing Biochemical and Raman Microscopy Analyses of Starch, Lipids, Polyphosphate, and Guanine Pools during the Cell Cycle of <i>Desmodesmus quadricauda</i> . <i>Cells</i> , 2021, 10, 62.	1.8	11
33	Structural and conformational properties of phosphonmethyl analogues of diribonucleoside monophosphates studied by Raman spectroscopy. <i>Journal of Molecular Structure</i> , 1995, 348, 45-48.	1.8	10
34	Probing the Formation, Structure, and Reactivity of Zn(II), Ag(I), and Fe(II) Complexes with 2,2',6',6'-Tetrapyridine on Ag Nanoparticles Surfaces by Time Evolution of SERS Spectra, Factor Analysis, and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6066-6077.	1.5	10
35	Spectroscopic investigation of nickel cation binding with adenine mononucleotides: stability and structure of the 1:2 complex with adenosine 5'-monophosphate. <i>Journal of Biological Inorganic Chemistry</i> , 1998, 3, 543-556.	1.1	9
36	SERRS spectra of cationic free-base porphyrin species adsorbed on laser ablated Ag colloids modified by mercaptoacetate spacers. <i>Journal of Molecular Structure</i> , 1999, 482-483, 225-229.	1.8	9

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37	Ground and excited state properties of naphthazarin: Absorption spectroscopy and theoretical modeling study. Computational and Theoretical Chemistry, 2007, 803, 79-87.	1.5	9
38	Mixtures of l-Amino Acids as Reaction Medium for Formation of Iron Nanoparticles: The Order of Addition into a Ferrous Salt Solution Matters. International Journal of Molecular Sciences, 2013, 14, 19452-19473.	1.8	9
39	Raman excitation profiles of hybrid systems constituted by single-layer graphene and free base phthalocyanine: Manifestations of two mechanisms of graphene-enhanced Raman scattering. Journal of Raman Spectroscopy, 2017, 48, 1270-1281.	1.2	9
40	Revisiting biocrystallization: purine crystalline inclusions are widespread in eukaryotes. ISME Journal, 2022, 16, 2290-2294.	4.4	9
41	Raman Microspectroscopy of the Yeast Vacuoles. Spectroscopy, 2012, 27, 503-507.	0.8	8
42	Salt-Induced Conformational Transition of Poly(d2NH2A-dT) Studied by Ultraviolet Resonance Raman Spectroscopy. Journal of Biomolecular Structure and Dynamics, 1992, 10, 181-194.	2.0	7
43	Scaled quantum mechanical force fields and vibrational spectra of solid-state nucleic acid constituents. 3. 2-Amino adenine. The Journal of Physical Chemistry, 1992, 96, 9278-9282.	2.9	7
44	Structural features of two distinct molecular complexes of copper(II) cationic porphyrin and deoxyribonucleotides. Biopolymers, 2002, 67, 278-281.	1.2	7
45	Interaction of porphyrin/oligonucleotide complex with liposomes studied by drop coating deposition Raman spectroscopy. Spectroscopy, 2010, 24, 197-200.	0.8	7
46	Single-crystal sapphire tubes as economical probes for optical pyrometry in harsh environments. Applied Optics, 2011, 50, 6599.	2.1	6
47	Electrochemical Pretreatment of Carbon Fiber Microelectrodes Based on Sinusoidal-wave Potential Cycling and its Application to Amperometric Sensing of Bioactive Compounds. Current Analytical Chemistry, 2013, 9, 305-311.	0.6	6
48	Excitation Wavelength Dependence of Combined Surface- and Graphene-Enhanced Raman Scattering Experienced by Free-Base Phthalocyanine Localized on Single-Layer Graphene-Covered Ag Nanoparticle Arrays. Journal of Physical Chemistry C, 2018, 122, 20850-20860.	1.5	6
49	Electrochemical Pretreatment of Carbon Fiber Microelectrodes Based on Sinusoidal-wave Potential Cycling and its Application to Amperometric Sensing of Bioactive Compounds. Current Analytical Chemistry, 2013, 9, 305-311.	0.6	6
50	Raman spectroscopy study of acid-base and structural properties of 9-[2-(phosphonomethoxy)ethyl]adenine in aqueous solutions. Biopolymers, 2002, 67, 285-288.	1.2	5
51	Cellular uptake of phosphorothioate oligonucleotide facilitated by cationic porphyrin: A microfluorescence study. Biopolymers, 2006, 82, 325-328.	1.2	5
52	Time-resolved Microspectrofluorometry and Fluorescence Imaging Techniques: Study of Porphyrin-mediated Cellular Uptake of Oligonucleotides. Annals of the New York Academy of Sciences, 2008, 1130, 117-121.	1.8	5
53	Analysis of composite nanofibrous layers by confocal Raman microscopy. Polymer, 2014, 55, 5036-5042.	1.8	5
54	Changes in Na ⁺ ,K ⁺ -ATPase structure induced by cation binding Approach by Raman spectroscopy. FEBS Letters, 1992, 312, 80-82.	1.3	4

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55	Vibrational mode analysis of 2-aminoadenine and its deuterated species from Raman and ultraviolet resonance Raman data. <i>European Biophysics Journal</i> , 1994, 23, 95.	1.2	4
56	SERS study of porphyrins with pyridyl side groups in various SERS-active colloidal systems. <i>Journal of Molecular Structure</i> , 1995, 349, 121-124.	1.8	4
57	SERRS spectra of azo dyes from deposited Ag colloid-azo dye films: investigating the mechanism of film formation. <i>Journal of Molecular Structure</i> , 1999, 482-483, 217-220.	1.8	4
58	Cellular uptake of modified oligonucleotides enhanced by porphyrins studied by time-resolved microspectrofluorimetry and fluorescence imaging techniques. <i>Journal of Molecular Structure</i> , 2011, 993, 316-318.	1.8	4
59	Effect of ribose versus 2-deoxyribose residue in guanosine 5'-monophosphates on formation of G-quartets stabilized by potassium and sodium cations. <i>Vibrational Spectroscopy</i> , 2016, 82, 60-65.	1.2	4
60	Modification of a SERS-active Ag surface to promote adsorption of charged analytes: effect of Cu ²⁺ ions. <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 902-912.	1.5	4
61	Non-invasive diagnostic system and its optomechanical probe for combining confocal Raman spectroscopy and optical coherence tomography. <i>Journal of Biophotonics</i> , 2017, 10, 1442-1449.	1.1	3
62	Frequency domain fluorescence microspectrometry: Application to cellular uptake and drug distribution. <i>Spectroscopy</i> , 2010, 24, 303-307.	0.8	2
63	Study of Cellular Uptake of Modified Oligonucleotides by Using Time-Resolved Microspectrofluorimetry and Florescence Imaging. <i>Spectroscopy</i> , 2012, 27, 415-419.	0.8	2
64	Surface-enhanced resonance Raman scattering of a cationic porphyrin: determination of surface enhancement factors in the case of molecular resonance excitations. <i>Journal of Molecular Structure</i> , 1997, 410-411, 209-211.	1.8	1
65	Binding of Platinum Complexes to DNA Monitored by Raman Spectroscopy. , 2010, , .		1
66	Differential Raman spectroscopic study of the interaction of nickel (II) cation with adenine nucleotides. , 1991, , .		0
67	Excited states in porphyrin-DNA interactions. , 1993, 1921, 361.		0
68	Statistical signal processing in multichannel Raman spectroscopy. <i>Journal of Molecular Structure</i> , 1995, 348, 285-288.	1.8	0