Peter Mojzes

List of Publications by Year
in descending order

68 papers	1,347 citations	361413 20 h-index	377865 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. Analytical Chemistry, 1997, 69, 5103-5108.	6.5	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. The Journal of Physical Chemistry, 1993, 97, 1074-1084.	2.9	79
3	Phosphorus starvation and luxury uptake in green microalgae revisited. Algal Research, 2019, 43, 101651.	4.6	71
4	Polymorphism of human telomeric quadruplex structure controlled by DNA concentration: a Raman study. Nucleic Acids Research, 2013, 41, 1005-1016.	14.5	67
5	SVDâ€based method for intensity normalization, background correction and solvent subtraction in Raman spectroscopy exploiting the properties of water stretching vibrations. Journal of Raman Spectroscopy, 2011, 42, 1528-1539.	2.5	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. The Journal of Physical Chemistry, 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. Bioresource Technology, 2017, 234, 140-149.	9.6	43
8	Stable isotope compounds - production, detection, and application. Biotechnology Advances, 2018, 36, 784-797.	11.7	41
9	Raman microscopy shows that nitrogen-rich cellular inclusions in microalgae are microcrystalline guanine. Algal Research, 2017, 23, 216-222.	4.6	39
10	Quantification of Polyphosphate in Microalgae by Raman Microscopy and by a Reference Enzymatic Assay. Analytical Chemistry, 2017, 89, 12006-12013.	6.5	38
11	Charge Transport in DNA Oligonucleotides with Various Base-Pairing Patterns. Journal of Physical Chemistry B, 2010, 114, 5196-5205.	2.6	34
12	A comparative study of surfaceâ€enhanced Raman scattering from silverâ€coated anodic aluminum oxide and porous silicon. Journal of Raman Spectroscopy, 2011, 42, 12-20.	2.5	34
13	Time-Resolved Resonance Raman Study of the Exciplex Formed between Excited Cuâ€'Porphyrin and DNA. Journal of Physical Chemistry B, 2001, 105, 5018-5031.	2.6	33
14	Raman and fluorescence microscopy sensing energy-transducing and energy-storing structures in microalgae. Algal Research, 2016, 16, 224-232.	4.6	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. Journal of Physical Chemistry B, 1997, 101, 3161-3167.	2.6	31
16	Guanine, a high-capacity and rapid-turnover nitrogen reserve in microalgal cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32722-32730.	7.1	30
17	Stability of local secondary structure determines selectivity of viral RNA chaperones. Nucleic Acids Research, 2018, 46, 7924-7937.	14.5	28
18	Spectral detection of J-aggregates of cationic porphyrin and investigation of conditions of their formation. Journal of Molecular Structure, 2005, 744-747, 265-272.	3.6	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. Vibrational Spectroscopy, 1999, 19, 243-247.	2.2	25
20	Lincomycin Biosynthesis Involves a Tyrosine Hydroxylating Heme Protein of an Unusual Enzyme Family. PLoS ONE, 2013, 8, e79974.	2.5	24
21	The Arctic Cylindrocystis (Zygnematophyceae, Streptophyta) Green Algae are Genetically and Morphologically Diverse and Exhibit Effective Accumulation of Polyphosphate. Journal of Phycology, 2020, 56, 217-232.	2.3	21
22	Surface-enhanced resonance Raman spectroscopy of porphyrin and metalloporphyrin species in systems with Ag nanoparticles and their assemblies. Journal of Inorganic Biochemistry, 2000, 79, 295-300.	3.5	20
23	Probing strong optical fields in compact aggregates of silver nanoparticles by SERRS of protoporphyrin IX. Faraday Discussions, 2006, 132, 121-134.	3.2	20
24	Surface-enhanced Raman scattering on silvered porous alumina templates: role of multipolar surface plasmon resonant modes. Physical Chemistry Chemical Physics, 2015, 17, 31780-31789.	2.8	20
25	The molecular force field of guanine and its deuterated species as determined from neutron inelastic scattering and resonance Raman measurements. European Biophysics Journal, 1993, 22, 225.	2.2	19
26	Towards phosphorus recycling for agriculture by algae: Soil incubation and rhizotron studies using 33P-labeled microalgal biomass. Algal Research, 2019, 43, 101634.	4.6	19
27	Excited States of Water-Soluble Metal Porphyrins as Microenvironmental Probes for DNA and DNA-Model Compounds:â€‰ Time-Resolved Transient Absorption and Resonance Raman Studies of Ni(TMpy-P4) in [Poly(dG-dC)]2 and [Poly(dA-dT)]2. The Journal of Physical Chemistry, 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. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2321-2329.	3.9	15
29	Does Raman spectroscopy recognize different Gâ€quadruplex arrangements?. Journal of Raman Spectroscopy, 2020, 51, 301-312.	2.5	13
30	Interactions of Electronically Excited Copper(II)âˆ'Porphyrin with DNA: Resonance Raman Evidence for the Exciplex Formation with Adenine and Cytosine Residues. Journal of Physical Chemistry B, 2003, 107, 7532-7535.	2.6	12
31	Ag colloidâ€“ethanethiol films: spacer-modified substrates for surface-enhanced resonance Raman scattering spectroscopy of chromophoric molecules. Vibrational Spectroscopy, 1999, 19, 239-242.	2.2	11
32	Comparing Biochemical and Raman Microscopy Analyses of Starch, Lipids, Polyphosphate, and Guanine Pools during the Cell Cycle of Desmodesmus quadricauda. Cells, 2021, 10, 62.	4.1	11
33	Structural and conformational properties of phosphonylmethyl analogues of diribonucleoside monophosphates studied by Raman spectroscopy. Journal of Molecular Structure, 1995, 348, 45-48.	3.6	10
34	Probing the Formation, Structure, and Reactivity of Zn(II), Ag(I), and Fe(II) Complexes with 2,2â€²:6â€²,2â€³-Terpyridine on Ag Nanoparticles Surfaces by Time Evolution of SERS Spectra, Factor Analysis, and DFT Calculations. Journal of Physical Chemistry C, 2018, 122, 6066-6077.	3.1	10
35	Spectroscopic investigation of nickel cation binding with adenine mononucleotides: stability and structure of the 1:2 complex with adenosine 5â€²-monophosphate. Journal of Biological Inorganic Chemistry, 1998, 3, 543-556.	2.6	9
36	SERRS spectra of cationic free-base porphyrin species adsorbed on laser ablated Ag colloids modified by mercaptoacetate spacers. Journal of Molecular Structure, 1999, 482-483, 225-229.	3.6	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.	4.1	9
39	Raman excitation profiles of hybrid systems constituted by singleâ€layer graphene and free base phthalocyanine: Manifestations of two mechanisms of grapheneâ€enhanced Raman scattering. Journal of Raman Spectroscopy, 2017, 48, 1270-1281.	2.5	9
40	Revisiting biocrystallization: purine crystalline inclusions are widespread in eukaryotes. ISME Journal, 2022, 16, 2290-2294.	9.8	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.	3.5	7
43	Scaled quantum mechanical force fields and vibrational spectra of solid-state nucleic acid constituents. 3. 2-Aminoadenine. 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.	2.4	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.	1.2	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.	3.1	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.	1.2	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.	2.4	5
51	Cellular uptake of phosphorothioate oligonucleotide facilitated by cationic porphyrin: A microfluorescence study. Biopolymers, 2006, 82, 325-328.	2.4	5
52	Timeâ€resolved Microspectrofluorometry and Fluorescence Imaging Techniques: Study of Porphyrinâ€mediated Cellular Uptake of Oligonucleotides. Annals of the New York Academy of Sciences, 2008, 1130, 117-121.	3.8	5
53	Analysis of composite nanofibrous layers by confocal Raman microscopy. Polymer, 2014, 55, 5036-5042.	3.8	5
54	Changes in Na+,K+-ATPase structure induced by cation binding Approach by Raman spectroscopy. FEBS Letters, 1992, 312, 80-82.	2.8	4

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55	Vibrational mode analysis of 2-aminoadenine and its deuterated species from Raman and ultraviolet resonance Raman data. European Biophysics Journal, 1994, 23, 95.	2.2	4
56	SERS study of porphyrins with pyridyl side groups in various SERS-active colloidal systems. Journal of Molecular Structure, 1995, 349, 121-124.	3.6	4
57	SERRS spectra of azo dyes from deposited Ag colloid-azo dye films: investigating the mechanism of film formation. Journal of Molecular Structure, 1999, 482-483, 217-220.	3.6	4
58	Cellular uptake of modified oligonucleotides enhanced by porphyrins studied by time-resolved microspectrofluorimetry and fluorescence imaging techniques. Journal of Molecular Structure, 2011, 993, 316-318.	3.6	4
59	Effect of ribose versus 2â€²-deoxyribose residue in guanosine 5â€²-monophosphates on formation of G-quartets stabilized by potassium and sodium cations. Vibrational Spectroscopy, 2016, 82, 60-65.	2.2	4
60	Modification of a SERS-active Ag surface to promote adsorption of charged analytes: effect of Cu²⁺ ions. Beilstein Journal of Nanotechnology, 2021, 12, 902-912.	2.8	4
61	Nonâ€invasive diagnostic system and its optoâ€mechanical probe for combining confocal Raman spectroscopy and optical coherence tomography. Journal of Biophotonics, 2017, 10, 1442-1449.	2.3	3
62	Frequency domain fluorescence microspectrometry: Application to cellular uptake and drug distribution. Spectroscopy, 2010, 24, 303-307.	0.8	2
63	Study of Cellular Uptake of Modified Oligonucleotides by Using Time-Resolved Microspectrofluorimetry and Florescence Imaging. Spectroscopy, 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. Journal of Molecular Structure, 1997, 410-411, 209-211.	3.6	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. Journal of Molecular Structure, 1995, 348, 285-288.	3.6	0