

Pavel Matějka

List of Publications by Year in descending order

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147
papers

3,101
citations

201674

27
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49
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149
all docs

149
docs citations

149
times ranked

4143
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of reverse engineering in the field of pharmaceutical tablets using Raman mapping and chemometrics. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 209, 114496.	2.8	10
2	Immobilization of green-synthesized silver nanoparticles for micro- and nano-spectroscopic applications: What is the role of used short amino- and thio-linkers and immobilization procedure on the SERS spectra?. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 247, 119142.	3.9	3
3	Electrochemical sensor for phenylpropanolamine based on oligomer derived from 3-hydroxybenzoic acid with dibenzo-18-crown-6. <i>Journal of Electroanalytical Chemistry</i> , 2021, 882, 114963.	3.8	0
4	Methodology of deconvolution of total solute retention on chemically modified stationary phases to structure specific contributions of bound compounds. <i>Journal of Chromatography A</i> , 2021, 1642, 462030.	3.7	1
5	Design and Electrochemical Investigation of Ureido-Sulfonamidic Receptors for Phosphates. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1707-1707.	0.0	0
6	Development and characterization of a novel reference sample for tip-enhanced Raman spectroscopy. <i>Monatshefte für Chemie</i> , 2021, 152, 1119-1125.	1.8	0
7	Advantages and drawbacks of the use of immobilized "green-synthesized" silver nanoparticles on gold nanolayer for near-field vibrational spectroscopic study of riboflavin. <i>Applied Surface Science</i> , 2021, 557, 149832.	6.1	3
8	Unraveling the influence of substrate on the growth rate, morphology and covalent structure of surface adherent polydopamine films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 205, 111897.	5.0	16
9	Optimization of Electrochemical Visualization of Latent Fingerprints with Poly(Neutral Red) on Brass Surfaces. <i>Polymers</i> , 2021, 13, 3220.	4.5	2
10	Nitro group as a redox switch in urea-based receptors of anions. <i>Journal of Electroanalytical Chemistry</i> , 2021, 902, 115816.	3.8	4
11	Molecular Recognition of Phenylalanine Enantiomers onto a Solid Surface Modified with Electropolymerized Pyrrole- β -Cyclodextrin Conjugate. <i>Electroanalysis</i> , 2020, 32, 767-774.	2.9	6
12	The effect of silver nanoparticles on the penetration properties of the skin and quantification of their permeation through skin barrier. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	5
13	Role of TiO ₂ Nanoparticles and UV Irradiation in the Enhancement of SERS Spectra To Improve Levamisole and Cocaine Detection on Au Substrates. <i>Langmuir</i> , 2019, 35, 4540-4547.	3.5	11
14	New designed special cells for Raman mapping of the disintegration process of pharmaceutical tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 168, 113-123.	2.8	10
15	Molecular frameworks of polymerized 3-aminobenzoic acid for chemical modification and electrochemical recognition. <i>Journal of Electroanalytical Chemistry</i> , 2019, 832, 321-328.	3.8	6
16	SERS study of riboflavin on green-synthesized silver nanoparticles prepared by reduction using different flavonoids: What is the role of flavonoid used?. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 195, 236-245.	3.9	33
17	Nafion® modified with primary amines: chemical structure, sorption properties and pervaporative separation of methanol-dimethyl carbonate mixtures. <i>European Polymer Journal</i> , 2018, 99, 268-276.	5.4	25
18	Electrochemical Detection of Sialic Acid Using Phenylboronic Acid-modified Poly(Diaminobenzoic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.9	12

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19	The use of infrared spectroscopic techniques to characterize nanomaterials and nanostructures: A review. <i>Analytica Chimica Acta</i> , 2018, 1031, 1-14.	5.4	51
20	Study of interactions between Gallic Acid and Skin Surface using Infrared Spectroscopy. <i>Vibrational Spectroscopy</i> , 2018, 97, 119-128.	2.2	4
21	The influence of different acquisition settings and the focus adjustment on Raman spectral maps of pharmaceutical tablets. <i>Journal of Drug Delivery Science and Technology</i> , 2018, 47, 386-394.	3.0	10
22	Study of plasmonic nanoparticles interactions with skin layers by vibrational spectroscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 116, 85-93.	4.3	9
23	Obtaining Black Carbon – A Simple Method for the Safe Removal of Mineral Components from Soils and Archaeological Layers. <i>Archaeometry</i> , 2017, 59, 346-355.	1.3	2
24	Poly(4-amino-2,1,3-benzothiadiazole) films: preparation, characterization and applications. <i>Chemical Papers</i> , 2017, 71, 359-366.	2.2	4
25	Immobilized strychnine as a new chiral stationary phase for HPLC. <i>Electrophoresis</i> , 2017, 38, 1956-1963.	2.4	6
26	Sorption of organic liquids in poly(ethylene chlorotrifluoroethylene) Halar®901: Experimental and theoretical analysis. <i>Polymer Testing</i> , 2017, 58, 199-207.	4.8	4
27	Amino-substituted Tröger's base: electrochemical polymerization and characterization of the polymer film. <i>Electrochimica Acta</i> , 2017, 224, 439-445.	5.2	7
28	Ageing of PVP/LiNbO ₃ solutions and its impact on the optical properties of Er ³⁺ /Yb ³⁺ :LiNbO ₃ waveguiding films. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 111, 343-348.	4.0	3
29	Synthesis and deposition of a Tröger's base polymer on the electrode surface for potentiometric detection of a neuroblastoma tumor marker metabolite. <i>Chemical Communications</i> , 2016, 52, 11991-11994.	4.1	10
30	Explanation of Surface-Enhanced Raman Scattering Intensities of <i>p</i> -Aminobenzenethiol by Density Functional Computations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18275-18280.	3.1	13
31	A fundamental study of the physicochemical properties of Rhodiasolv®Polarclean: A promising alternative to common and hazardous solvents. <i>Journal of Molecular Liquids</i> , 2016, 224, 1163-1171.	4.9	44
32	The complexation of anions by chloro- and cyanoacetanilides; IR, 1H-NMR and computation study. <i>Supramolecular Chemistry</i> , 2016, 28, 249-255.	1.2	0
33	Smart Design for Potentiometric Detection. <i>Electroanalysis</i> , 2015, 27, 713-719.	2.9	2
34	Surface-Enhanced Infrared Spectra of Nicotinic Acid and Pyridoxine on Copper Substrates: What Is the Effect of Temperature and Deposition Conditions?. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26526-26539.	3.1	12
35	Isomerizational and conformational study of 3-fluorophenylamino-2-acetyl propenenitrile (FPAAPN). <i>Journal of Molecular Structure</i> , 2015, 1090, 112-120.	3.6	4
36	Vapor pressures and thermophysical properties of selected hexenols and recommended vapor pressure for hexan-1-ol. <i>Fluid Phase Equilibria</i> , 2015, 402, 18-29.	2.5	20

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37	Synthesis and Characterization of a Helicene-Based Imidazolium Salt and Its Application in Organic Molecular Electronics. <i>Chemistry - A European Journal</i> , 2015, 21, 2343-2347.	3.3	58
38	Spectroscopic studies of folic acid adsorbed on various metal substrates: does the type of substrate play an essential role in temperature dependence of spectral features?. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 750-757.	2.5	16
39	The permselective layer prepared onto carbon and gold surfaces by electropolymerization of phenolic cyclopentenedione-nostotrebine 6. <i>Electrochemistry Communications</i> , 2014, 38, 53-56.	4.7	8
40	Immobilization of helicene onto carbon substrates through electropolymerization of [7]helicenyl-thiophene. <i>RSC Advances</i> , 2014, 4, 46102-46105.	3.6	25
41	Chemometric evaluation of temperature-dependent surface-enhanced Raman spectra of riboflavin: What is the best multivariate approach to describe the effect of temperature?. <i>Journal of Molecular Structure</i> , 2014, 1075, 609-619.	3.6	2
42	Ytterbium and erbium derivatives of 2-methoxyethanol and their use in the thin film deposition of Er-doped Yb ₃ Al ₅ O ₁₂ . <i>Journal of Sol-Gel Science and Technology</i> , 2014, 70, 142-148.	2.4	9
43	Spectrometric determination of L-cysteine and its enantiomeric purity using silver nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 961-966.	4.7	16
44	SERS and in situ SERS spectroscopy of riboflavin adsorbed on silver, gold and copper substrates. Elucidation of variability of surface orientation based on both experimental and theoretical approach. <i>Journal of Molecular Structure</i> , 2013, 1038, 19-28.	3.6	39
45	Resolution of Organic Polymorphic Crystals by Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7297-7307.	2.6	25
46	In Situ SERS Study of Azobenzene Derivative Formation from 4-Aminobenzenethiol on Gold, Silver, and Copper Nanostructured Surfaces: What Is the Role of Applied Potential and Used Metal?. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21245-21253.	3.1	34
47	In situ SERS spectroelectrochemical analysis of antioxidants deposited on copper substrates: What is the effect of applied potential on sorption behavior?. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 99, 196-204.	3.9	15
48	Surface-enhanced vibrational spectroscopy of B vitamins: what is the effect of SERS-active metals used?. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 985-993.	3.7	27
49	Gel stabilization in chelate sol-gel preparation of Bi-2223 superconductors. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 448-453.	4.0	10
50	Infrared spectroscopic study of the model metal-ligand-antibody systems: What information on the structure and stability of systems can be obtained?. <i>Vibrational Spectroscopy</i> , 2012, 61, 78-84.	2.2	1
51	Comparison of SERS effectiveness of copper substrates prepared by different methods: what are the values of enhancement factors?. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 181-186.	2.5	60
52	Effects of Endo- and Ectomycorrhizal Fungi on Physiological Parameters and Heavy Metals Accumulation of Two Species from the Family Salicaceae. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 399-410.	2.4	40
53	Cyclodextrin modified gold nanoparticles-based open-tubular capillary electrochromatographic separations of polyaromatic hydrocarbons. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5947-5957.	1.9	24
54	Spectroscopic study of SERS- and SEIRA-activity of copper large-scaled surface substrates prepared by electrochemical deposition: What is the role of oxidation-reduction cycle treatment?. <i>Journal of Molecular Structure</i> , 2011, 993, 410-419.	3.6	16

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55	Determination of relative configuration of symmetrical bis-Tröger's base derivatives. <i>Journal of Molecular Structure</i> , 2011, 996, 69-74.	3.6	7
56	Immobilized metallacarborane as a new type of stationary phase for high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2011, 1218, 3029-3036.	3.7	11
57	Isomerizational and conformational study of methyl-2-cyano-3-methoxyacrylate and methyl-2-cyano-3-aminoacrylate and its N-methyl derivatives. <i>Journal of Molecular Structure</i> , 2011, 993, 232-242.	3.6	3
58	Brightly Luminescent Organically Capped Silicon Nanocrystals Fabricated at Room Temperature and Atmospheric Pressure. <i>ACS Nano</i> , 2010, 4, 4495-4504.	14.6	161
59	Electrochemical and spectroscopic properties of poly-4,4'-dialkoxy-2,2'-bipyrrroles. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 1035-1044.	2.5	1
60	Application of gold nanoparticles in separation sciences. <i>Journal of Separation Science</i> , 2010, 33, 372-387.	2.5	118
61	The chemometric analysis of UV-visible spectra as a new approach to the study of the NaCl influence on aggregation of cysteine-capped gold nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 364, 94-98.	4.7	21
62	Interaction of soil filamentous fungi affects needle composition and nutrition of Norway spruce seedlings. <i>Trees - Structure and Function</i> , 2009, 23, 887-897.	1.9	18
63	Conformational studies of aminomethylene-malonic acid dimethylester and its N-methyl derivatives using vibrational spectroscopy, X-ray analysis and ab initio calculations. <i>Journal of Molecular Structure</i> , 2009, 924-926, 54-61.	3.6	3
64	Polypyrrole thin films for gas sensors prepared by Matrix-Assisted Pulsed Laser Evaporation technology: Effect of deposition parameters on material properties. <i>Thin Solid Films</i> , 2009, 517, 2083-2087.	1.8	21
65	Modeling of a Tröger's tweezer and its complexation properties. <i>Journal of Molecular Structure</i> , 2009, 934, 117-122.	3.6	16
66	Characterization of copper SERS-active substrates prepared by electrochemical deposition. <i>Applied Surface Science</i> , 2009, 255, 7864-7870.	6.1	44
67	Solvent Dependence of the N-Methylacetamide Structure and Force Field. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9727-9736.	2.5	29
68	Conformational and isomerizational studies of 3-N,N-dimethylhydrazino-2-acetyl propenenitrile using X-ray analysis, NMR and vibrational spectra, and ab initio calculations. <i>Journal of Molecular Structure</i> , 2009, 938, 97-110.	3.6	9
69	Preparation of SERS-active substrates with large surface area for Raman spectral mapping and testing of their surface nanostructure. <i>Surface and Interface Analysis</i> , 2008, 40, 601-607.	1.8	23
70	Raman spectral detection and assessment of thin organic layers on metal substrates: systematic approach from substrate preparation to map evaluation. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 515-524.	2.5	18
71	Optimization of the thickness of a conducting polymer, polyaniline, deposited on the surface of poly(vinyl chloride) membranes: A new way to improve their potentiometric response. <i>Analytica Chimica Acta</i> , 2008, 624, 238-246.	5.4	26
72	Conformational and isomerizational studies of 3-N,N-dimethylhydrazino-2-methylsulfonyl propenenitrile using NMR and vibrational spectra, X-ray analysis and ab initio calculations. <i>Journal of Molecular Structure</i> , 2008, 891, 192-204.	3.6	3

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73	Colloidal Solution of Organically Capped Si Nanocrystals in Xylene: Efficient Photoluminescence in the Yellow Region. , 2008, , .		0
74	Noise reduction in Raman spectra: Finite impulse response filtration versus Savitzky-Golay smoothing. Journal of Raman Spectroscopy, 2007, 38, 1174-1179.	2.5	78
75	Vibrational analysis and conformational study of 3-methylamino-2-acetyl propenenitrile and 3-methylamino-2-methylsulfonyl propenenitrile. Journal of Molecular Structure, 2007, 829, 8-21.	3.6	6
76	Isomers and conformers of two push-pull hydrazines studied by NMR and vibrational spectroscopy and by ab initio calculations. Journal of Molecular Structure, 2007, 834-836, 284-293.	3.6	7
77	Characterization and cytocompatibility of carbon layers prepared by photo-induced chemical vapor deposition. Thin Solid Films, 2007, 515, 6765-6772.	1.8	30
78	Oscillatory Reactions Involving Hydrogen Peroxide and Thiosulfate Kinetics of the Oxidation of Tetrathionate by Hydrogen Peroxide. Inorganic Chemistry, 2006, 45, 2824-2834.	4.0	27
79	A New Bis-Tröger's Base: Synthesis, Spectroscopy, Crystal Structure and Isomerization. Collection of Czechoslovak Chemical Communications, 2006, 71, 1278-1302.	1.0	16
80	Vibrational analysis and conformational study of 3-dimethylamino-2-acetyl propenenitrile and 3-dimethylamino-2-methylsulfonyl propenenitrile. Journal of Molecular Structure, 2006, 785, 85-97.	3.6	12
81	Structural and conductivity changes during the pyrolysis of polyaniline base. Polymer Degradation and Stability, 2006, 91, 114-121.	5.8	124
82	Electrochemical oxidative polymerization of sodium 4-amino-3-hydroxynaphthalene-1-sulfonate and structural characterization of polymeric products. Reactive and Functional Polymers, 2006, 66, 1670-1683.	4.1	21
83	Control charts for chemometric evaluation of Raman spectra. Journal of Molecular Structure, 2005, 744-747, 259-264.	3.6	3
84	The isomers and conformers of some push-pull enamines studied by vibrational and NMR spectroscopy and by ab initio calculations. Journal of Molecular Structure, 2005, 744-747, 315-324.	3.6	14
85	Electrochemistry of Benzophenanthridine Alkaloids. Formation and Characterization of Redox Active Films from Products of Sanguinarine and Chelerythrine Oxidation. Electroanalysis, 2005, 17, 2175-2181.	2.9	9
86	FT Raman Spectroscopy as a Tool for Characterization of Derivatized Silica Gel Sorbents. Collection of Czechoslovak Chemical Communications, 2005, 70, 168-177.	1.0	0
87	Biodistribution Assessment of a Lutetium(III) Texaphyrin Analogue in Tumor-bearing Mice Using NIR Fourier-transform Raman Spectroscopy. Photochemistry and Photobiology, 2004, 79, 453.	2.5	13
88	Properties of RF magnetron sputtered gallium nitride semiconductors doped with erbium. Surface and Interface Analysis, 2004, 36, 952-954.	1.8	1
89	Influence of specific growth limitation on biosorption of heavy metals by <i>Saccharomyces cerevisiae</i> . International Biodeterioration and Biodegradation, 2004, 54, 203-207.	3.9	37
90	Solid-phase synthesis of head and tail bis-acridinylated peptides. Tetrahedron Letters, 2004, 45, 1203-1205.	1.4	13

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91	Citrate selectivity of poly(neutral red) electropolymerized films. <i>Analytica Chimica Acta</i> , 2004, 511, 197-205.	5.4	42
92	N-octadecylpectinamide, a hydrophobic sorbent based on modification of highly methoxylated citrus pectin. <i>Carbohydrate Polymers</i> , 2004, 56, 169-179.	10.2	28
93	The complexation of metal cations by d-galacturonic acid: a spectroscopic study. <i>Carbohydrate Research</i> , 2004, 339, 2391-2405.	2.3	17
94	Conformational Flexibility of Corey Lactone Derivatives Indicated by Absorption and Vibrational Circular Dichroism Spectra. <i>Journal of Organic Chemistry</i> , 2004, 69, 26-32.	3.2	9
95	Biodistribution Assessment of a Lutetium(III) Texaphyrin Analogue in Tumor-bearing Mice Using NIR Fourier-transform Raman Spectroscopy. <i>Photochemistry and Photobiology</i> , 2004, 79, 453-460.	2.5	1
96	Intercalates of Vanadyl Phosphate with Dinitriles. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2003, 45, 235-239.	1.6	6
97	Surface plasmon resonance and Raman scattering effects studied for layers deposited on Spreeta sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 375, 1240-1245.	3.7	7
98	Preparation and oxygen resistance of 2D composites based on E-glass, R-glass, and siloxanes. <i>Materials Chemistry and Physics</i> , 2003, 82, 458-465.	4.0	1
99	Intercalates of Vanadyl Phosphate with Benzonitrile and Tolunitrile. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 3662-3667.	2.0	3
100	Measurement of FT-Raman spectra of Norway spruce needles in stepwise rotating cylindrical cell. <i>Journal of Molecular Structure</i> , 2003, 651-653, 397-404.	3.6	1
101	Piezoelectrically driven capillary optical cell. <i>Journal of Molecular Structure</i> , 2003, 651-653, 211-215.	3.6	1
102	Measurement and evaluation of FT-Raman spectra of Norway spruce needles: how the background variability can be explained. <i>Journal of Molecular Structure</i> , 2003, 661-662, 333-345.	3.6	1
103	Fourier transform Raman and infrared spectroscopy of pectins. <i>Carbohydrate Polymers</i> , 2003, 54, 97-106.	10.2	484
104	Thermoluminescence properties of CVD diamond films. <i>Physica Status Solidi A</i> , 2003, 199, 131-137.	1.7	8
105	Interaction of oligopyrrole macrocycles with aromatic acids: spectroscopical, quantum chemical and chromatographic aspects. <i>Talanta</i> , 2003, 59, 817-829.	5.5	1
106	Formation of Porphyrin- and Sapphyrin-Containing Monolayers on Electrochemically Prepared Gold Substrates: A FT Raman Spectroscopic Study. <i>Langmuir</i> , 2002, 18, 6896-6906.	3.5	22
107	Synthesis and Characterization of Vanadyl Phosphate Intercalated with Dioxane, Trioxane, and 18-Crown-6. <i>Chemistry of Materials</i> , 2002, 14, 2788-2795.	6.7	17
108	Intercalation of Cyclic Ethers into Vanadyl Phosphate. <i>Chemistry - A European Journal</i> , 2002, 8, 1703-1709.	3.3	14

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109	Preparation, characterization and analytical application of electropolymerized films. <i>Solid State Ionics</i> , 2002, 154-155, 57-63.	2.7	10
110	Intercalates of Vanadyl Phosphate with Aliphatic Nitriles. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2002, 43, 95-99.	1.6	7
111	Mineralogical investigations of experimentally shocked dolomite: Implications for the outgassing of carbonates. , 2002, , .		11
112	FT Raman spectroscopy of Norway spruce needles. , 2001, , .		0
113	Spectroscopic study of phenyl- and 4-pyridylmalondialdehydes. <i>Journal of Molecular Structure</i> , 2001, 563-564, 497-501.	3.6	3
114	Multivariate analysis of attenuated total reflection spectra of Norway spruce needles. <i>Journal of Molecular Structure</i> , 2001, 565-566, 311-315.	3.6	4
115	Vibrational biospectroscopy: what can we say about the surface wax layer of Norway spruce needles?. <i>Journal of Molecular Structure</i> , 2001, 565-566, 305-310.	3.6	13
116	Comparison of FT Raman spectra of some 5-nitroquinoxalines and their electropolymers. <i>Journal of Molecular Structure</i> , 2001, 565-566, 101-105.	3.6	4
117	Novel porphyrin based receptors for saccharide recognition in water. <i>Sensors and Actuators B: Chemical</i> , 2001, 76, 366-372.	7.8	19
118	Intercalates of Vanadyl Phosphate with Unsaturated Alcohols. <i>European Journal of Inorganic Chemistry</i> , 2001, 2001, 713-719.	2.0	5
119	Thermoluminescence of CVD Diamond Films Used in Photon Dosimetry. <i>Physica Status Solidi A</i> , 2001, 185, 195-202.	1.7	5
120	Interaction of porphyrin and sapphyrin macrocycles with nucleobases and nucleosides. <i>Analytica Chimica Acta</i> , 2001, 437, 39-53.	5.4	11
121	Open-tubular electrochromatography of organic phosphates on a sapphyrin-modified capillary. <i>Journal of Chromatography A</i> , 2001, 921, 99-107.	3.7	11
122	Vibrational circular dichroism of tetraphenylporphyrin in peptide complexes? A computational study. , 2000, 12, 191-198.		51
123	A Study of the Hydration and Dehydration of Vanadyl Arsenate by X-ray Diffraction Analysis, Infrared and Raman Spectroscopy. <i>European Journal of Inorganic Chemistry</i> , 2000, 2000, 895-900.	2.0	5
124	Structure and composition of zirconium oxide films formed in high pressure water with different Li+ concentration at 360Å°C. <i>Materials Chemistry and Physics</i> , 2000, 63, 1-8.	4.0	15
125	Surface-Enhanced Raman Scattering and Surface-Enhanced Resonance Raman Scattering Excitation Profiles of Ag-2,2â€-Bipyridine Surface Complexes and of [Ru(bpy)3]2+ on Ag Colloidal Surfaces: Manifestations of the Charge-Transfer Resonance Contributions to the Overall Surface Enhancement of Raman Scattering. <i>Inorganic Chemistry</i> , 2000. 39, 3551-3559.	4.0	51
126	Fourier-transform Raman spectroscopic study of surface of Norway spruce needles. <i>Journal of Molecular Structure</i> , 1999, 480-481, 547-550.	3.6	4

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127	Potentiometric anion response of poly(5,15-bis(2-aminophenyl)porphyrin) electropolymerized electrodes. <i>Analytica Chimica Acta</i> , 1999, 381, 197-205.	5.4	29
128	Study of Host-Guest Interactions in Intercalate $Zr(HPO_4)_2 \cdot 2CH_3CH_2OH$ using a Combination of Vibration Spectroscopy and Molecular Simulations. <i>Journal of Solid State Chemistry</i> , 1999, 145, 1-9.	2.9	15
129	Intercalation of Water into Anhydrous Vanadyl Phosphate Studied by the Infrared and Raman Spectroscopies. <i>Journal of Solid State Chemistry</i> , 1999, 148, 197-204.	2.9	31
130	Water/Ethanol Displacement Reactions in Vanadyl Phosphate. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 2289-2294.	2.0	19
131	Polymerization of 4-(ferrocenylethynyl)phenylacetylene with transition metal catalysts. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 972-976.	2.2	20
132	Water/Ethanol Displacement Reactions in Vanadyl Phosphate. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 2289-2294.	2.0	1
133	Host-guest Interactions in Intercalates $Zr(HPO_4)_2 \cdot 2C_2H_5OH$ and $VOPO_4 \cdot 2C_2H_5OH$. <i>Journal of Molecular Modeling</i> , 1998, 4, 284-293.	1.8	1
134	Polymerization of nitrophenyl propargyl ethers with transition metal catalysts and characterization of polymers. <i>Polymer</i> , 1998, 39, 4443-4447.	3.8	15
135	Comparative Study of Polymerization of 2-, 3- and 4-Iodophenylacetylenes with Rh-, Mo- and W-Based Catalysts. <i>Collection of Czechoslovak Chemical Communications</i> , 1998, 63, 1815-1838.	1.0	19
136	SERS spectroscopy with Ag colloids. <i>Journal of Molecular Structure</i> , 1997, 408-409, 149-154.	3.6	8
137	Photon correlation spectroscopy as a tool of characterization of SERS-active systems based on Ag sols. <i>Journal of Molecular Structure</i> , 1997, 410-411, 197-199.	3.6	1
138	Near-Infrared Surface-Enhanced Raman Scattering Spectra of Heterocyclic and Aromatic Species Adsorbed on TLC Plates Activated with Silver. <i>Applied Spectroscopy</i> , 1996, 50, 409-414.	2.2	24
139	The Model of Linear Aggregate of Ag Colloidal Particles with Variable Inter-Particle Distances. <i>Collection of Czechoslovak Chemical Communications</i> , 1996, 61, 59-69.	1.0	9
140	Cobaltacarboranylacetylene $8,8'-(1/4-CHC-CH_2S)-(1,2-C_2B_9H_{10})_2-3-Co(III)$: Synthesis, Characterization and Polymerization of New Substituted Acetylene. <i>Collection of Czechoslovak Chemical Communications</i> , 1996, 61, 877-887.	1.0	11
141	The new model of linear colloidal aggregate. <i>Journal of Molecular Structure</i> , 1995, 348, 297-300.	3.6	0
142	SERS study of porphyrins with pyridyl side groups in various SERS-active colloidal systems. <i>Journal of Molecular Structure</i> , 1995, 349, 121-124.	3.6	4
143	Surface-Enhanced Raman Scattering Spectroscopy of Organometallics in Systems with Aqueous Silver Colloids. <i>Inorganic Chemistry</i> , 1994, 33, 2132-2136.	4.0	15
144	Surface-enhanced resonance Raman spectra of free base 5,10,15,20-tetrakis(4-carboxyphenyl)porphyrin and its silver complex in systems with silver colloid: direct adsorption in comparison to adsorption via molecular spacer. <i>The Journal of Physical Chemistry</i> , 1993, 97, 9719-9729.	2.9	83

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145	Surface-Enhanced Raman Scattering (SERS) Spectroscopy with Borohydride-Reduced Silver Colloids: Controlling Adsorption of the Scattering Species by Surface Potential of Silver Colloid. Collection of Czechoslovak Chemical Communications, 1993, 58, 2682-2694.	1.0	34
146	The role of triton X-100 as an adsorbate and a molecular spacer on the surface of silver colloid: a surface-enhanced Raman scattering study. The Journal of Physical Chemistry, 1992, 96, 1361-1366.	2.9	126
147	Surface-enhanced Raman spectra of 5,10,15,20-tetrakis(4-carboxyphenyl)porphyrin/silver colloid system: what information about the porphyrin do we obtain?. Inorganic Chemistry, 1991, 30, 4103-4105.	4.0	18