JÃ¡nos Mink

List of Publications by Year
in descending order

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93 papers	3,038 citations	136950 32 h-index	168389 53 g-index
104 all docs	104 docs citations	104 times ranked	3532 citing authors

#	Article	IF	Citations
1	Activation of hydrogen peroxide by the nitrate anion in micellar media. Green Chemistry, 2021, 23, 1965-1971.	9.0	3
2	Structural studies of ligand stabilized Ni/Ga clusters by means of vibrational spectroscopy and theoretical calculations. Journal of Raman Spectroscopy, 2021, 52, 2317-2337.	2.5	4
3	Surface enhanced Raman spectroscopic (SERS) behavior of phenylpyruvates used in heterogeneous catalytic asymmetric cascade reaction. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 260, 119912.	3.9	2
4	Vibrational properties and bonding analysis of copper hexacyanoferrate complexes in solid state. Applied Spectroscopy Reviews, 2019, 54, 369-424.	6.7	9
5	Tuning the Negative Thermal Expansion Behavior of the Metalâ€“Organic Framework Cu₃BTC₂ by Retrofitting. Journal of the American Chemical Society, 2019, 141, 10504-10509.	13.7	57
6	Thermal Plasma Decomposition of Tetrachloroethylene. Plasma Chemistry and Plasma Processing, 2018, 38, 771-790.	2.4	1
7	Structure and vibrational spectroscopic study of phthalimido-functionalized N-heterocyclic palladium complexes. Correlations between structure and catalytic activity. Journal of Organometallic Chemistry, 2018, 869, 233-250.	1.8	2
8	Preparation and characterization by infrared emission spectroscopy and applications of new mineral-based composite materials of biomedical interest. Applied Spectroscopy Reviews, 2018, 53, 439-485.	6.7	1
9	Vibrational properties of Î²-KSiH₃and Î²-RbSiH₃: a combined Raman and inelastic neutron scattering study. Journal of Raman Spectroscopy, 2017, 48, 284-291.	2.5	4
10	Decomposition of poly(vinyl chloride) in inductively coupled radiofrequency thermal plasma. Chemical Engineering Journal, 2016, 302, 163-171.	12.7	15
11	Surface enhanced Raman spectroscopic (SERS) behavior of substituted propenoic acids used in heterogeneous catalytic asymmetric hydrogenation. Journal of Raman Spectroscopy, 2015, 46, 1102-1109.	2.5	2
12	Structural and Vibrational Properties of Silyl (SiH₃^{â€“}) Anions in KSiH₃ and RbSiH₃: New Insight into Siâ€“H Interactions. Inorganic Chemistry, 2015, 54, 2300-2309.	4.0	18
13	Influence of structural and electronic properties of organomolybdenum(ii) complexes of the type [CpMo(CO)3R] and [CpMo(O2)(O)R] (R = Cl, CH3, CF3) on the catalytic olefin epoxidation. Catalysis Science and Technology, 2015, 5, 2282-2289.	4.1	13
14	Structure and Vibrational Analyses of LiP15. European Journal of Inorganic Chemistry, 2014, 2014, 5135-5144.	2.0	12
15	Ion Pairs of Weakly Coordinating Cations and Anions: Synthesis and Application for Sulfide to Sulfoxide Oxidations. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2014, 69, 1149-1163.	0.7	8
16	Synthesis and Characterization of a Cationic Phthalimidoâ€Functionalized Nâ€Heterocyclic Carbene Complex of Palladium(II) and Its Catalytic Activity. European Journal of Inorganic Chemistry, 2014, 2014, 1225-1230.	2.0	11
17	Cycloaddition of CO2 and epoxides catalyzed by imidazolium bromides under mild conditions: influence of the cation on catalyst activity. Catalysis Science and Technology, 2014, 4, 1749.	4.1	90
18	Vibrational spectroscopic study of SiO2-based nanotubes. Vibrational Spectroscopy, 2013, 66, 104-118.	2.2	13

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19	Activation of Hydrogen Peroxide by Ionic Liquids: Mechanistic Studies and Application in the Epoxidation of Olefins. Chemistry - A European Journal, 2013, 19, 5972-5979.	3.3	47
20	Synthesis and Comparison of Transition Metal Complexes of Abnormal and Normal Tetrazolylidenes: A Neglected Ligand Species. Inorganic Chemistry, 2013, 52, 7031-7044.	4.0	25
21	Xylyltrioxorhenium â€“ the first arylrhenium(vii) oxide applicable as an olefin epoxidation catalyst. Catalysis Science and Technology, 2013, 3, 388-393.	4.1	12
22	Oxidation of sulfides to sulfoxides mediated by ionic liquids. RSC Advances, 2012, 2, 8416.	3.6	29
23	Vibrational Spectroscopic Studies of Molecules with Biochemical Interest: The Cysteine Zwitterion. Applied Spectroscopy Reviews, 2012, 47, 415-483.	6.7	10
24	Transformation of Nickelalactones to Methyl Acrylate: On the Way to a Catalytic Conversion of Carbon Dioxide. ChemSusChem, 2011, 4, 1275-1279.	6.8	59
25	Organicâ€“inorganic nanotube hybrids: Organosilica-nanotubes containing ethane, ethylene and acetylene groups. Journal of Organometallic Chemistry, 2011, 696, 2910-2917.	1.8	11
26	Raman, Infrared, Far-infrared and Theoretical Studies of Urea Derivatives with Biological Interest. , 2010, , .		0
27	Vibrational Spectroscopic and Theoretical Studies of Urea Derivatives with Biochemical Interest:N,Nâ€²-Dimethylurea,N,N,Nâ€²,Nâ€²-Tetramethylurea, andN,Nâ€²-Dimethylpropyleneurea. Applied Spectroscopy Reviews, 2010, 45, 274-326.	6.7	10
28	FTâ€Raman investigation of human dental enamel surfaces. Journal of Raman Spectroscopy, 2009, 40, 898-902.	2.5	21
29	Pt(II)â€ion hydration: Structural and vibrational characteristics from theory and experiment. International Journal of Quantum Chemistry, 2009, 109, 2591-2598.	2.0	5
30	Cadmium(II) Cysteine Complexes in the Solid State: A Multispectroscopic Study. Inorganic Chemistry, 2009, 48, 4219-4230.	4.0	52
31	Ambidentate coordination in hydrogen bonded dimethyl sulfoxide, (CH3)2SOâ‹¯H3O+, and in dichlorobis(dimethyl sulfoxide) palladium(ii) and platinum(ii) solid solvates, by vibrational and sulfur K-edge X-ray absorption spectroscopy. Dalton Transactions, 2009, , 1328.	3.3	30
32	Apparatus and method to measure dielectric properties (Îµâ€² and Îµâ€³) of ionic liquids. Review of Scientific Instruments, 2009, 80, 044703.	1.3	13
33	Vibrational spectroscopic and force field studies of copper(II) chloride and bromide compounds, and crystal structure of KCuBr3. Journal of Raman Spectroscopy, 2008, 39, 16-31.	2.5	28
34	FTâ€Raman and FTIR spectroscopic characterization of biogenic carbonates from Philippine venus seashell and Porites sp. coral. Journal of Raman Spectroscopy, 2008, 39, 1204-1209.	2.5	32
35	Effects of Cu2+ and Pb2+ on different fish species: Liver cytochrome P450-dependent monooxygenase activities and FTIR spectra. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2008, 148, 53-60.	2.6	9
36	A zeolite family with chiral and achiral structures built from the same building layer. Nature Materials, 2008, 7, 381-385.	27.5	205

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37	Indirect Determination of Molecular Chlorine by Fourier Transform Infrared Spectrometry. Applied Spectroscopy, 2008, 62, 339-341.	2.2	0
38	Oxidative Câ€”H and Câ€”C Bond Cleavage by a (2,2â€²-Bipyridine)Copper(I) Chloride Complex. Inorganic Chemistry, 2008, 47, 6121-6123.	4.0	8
39	Photolysis-assisted, long-path FT-IR detection of air pollutants in the presence of water and carbon dioxide. Talanta, 2007, 71, 149-154.	5.5	5
40	Sulfur X-ray Absorption and Vibrational Spectroscopic Study of Sulfur Dioxide, Sulfite, and Sulfonate Solutions and of the Substituted Sulfonate Ions X₃CSO₃⁻ (X = H,) Tj ETQq0 0 0 rgBT /Overlock 1		
41	Crystallographic and Vibrational Spectroscopic Studies of Octakis(DMSO)lanthanoid(III) Iodides. Inorganic Chemistry, 2007, 46, 7731-7741.	4.0	46
42	Metalâ^'Metal Bonding in Tetracyanometalates (M = PtII, PdII, NiII) of Monovalent Thallium. Crystallographic and Spectroscopic Characterization of the New Compounds Tl2Ni(CN)4and Tl2Pd(CN)4. Inorganic Chemistry, 2007, 46, 4642-4653.	4.0	23
43	MTO Schiff-Base Complexes: Synthesis, Structures and Catalytic Applications in Olefin Epoxidation. Chemistry - A European Journal, 2007, 13, 158-166.	3.3	70
44	Structure and Redox Transformations of Iron(III) Complexes with Some Biologically Important Indole-3-Alkanoic Acids in Aqueous Solutions. Chemistry Journal of Moldova, 2007, 2, 88-92.	0.6	0
45	Infrared Emission and Theoretical Study of Carbon Monoxide Adsorbed on Alumina-Supported Rh, Ir, and Pt Catalysts. Journal of Physical Chemistry A, 2006, 110, 1817-1823.	2.5	33
46	Comparison of Open Path and Extractive Longâ€Path FTIR Techniques in Detection of Air Pollutants. Applied Spectroscopy Reviews, 2006, 41, 77-97.	6.7	19
47	Determination of Carbon Monoxide Concentration and Total Pressure in Gas Cavities in the Silica Glass Body of Light Bulbs by FT-IR Spectrometry. Analytical Chemistry, 2006, 78, 2382-2387.	6.5	5
48	Cationic copper(I) and silver(I) nitrile complexes with fluorinated weakly coordinating anions: Metalâ€“nitrile bond strength and its influence on the catalytic performance. Inorganica Chimica Acta, 2006, 359, 4723-4729.	2.4	26
49	MÃ¶ssbauer, vibrational spectroscopic and solution X-ray diffraction studies of the structure of iron(III) complexes formed with indole-3-alkanoic acids in acidic aqueous solutions. Structural Chemistry, 2006, 17, 105-120.	2.0	20
50	Detection of toxic effects of Cd2+ on different fish species via liver cytochrome P450-dependent monooxygenase activities and FTIR spectroscopy. Analytical and Bioanalytical Chemistry, 2006, 385, 652-659.	3.7	24
51	Infrared and Raman spectroscopic and theoretical studies of nonaaqua complexes of trivalent rare earth metal ions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 1639-1645.	3.9	19
52	FTIR Spectroscopy of the Atmosphere Part 2. Applications. Applied Spectroscopy Reviews, 2005, 40, 327-390.	6.7	58
53	Raman spectroscopy of the effect of reactor neutron irradiation on the structure of polycrystalline C60. Carbon, 2005, 43, 870-873.	10.3	5
54	Organonitrile ligated silver complexes with perfluorinated weakly coordinating anions and their catalytic application for coupling reactions. New Journal of Chemistry, 2005, 29, 366-370.	2.8	68

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55	Vibrational spectroscopic force field studies of dimethyl sulfoxide and hexakis(dimethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 7	3.3	65
56	FTIR Spectroscopy of the Atmosphere. I. Principles and Methods. Applied Spectroscopy Reviews, 2004, 39, 295-363.	6.7	86
57	A Simple Entry to (Î·5-C5R5)chlorodioxomolybdenum(VI) Complexes (R = H, CH3, CH2Ph) and Their Use as Olefin Epoxidation Catalysts. Organometallics, 2003, 22, 2112-2118.	2.3	148
58	Dimethyl sulfoxide solvates of the aluminium(iii), gallium(iii) and indium(iii) ions. A crystallographic, EXAFS and vibrational spectroscopic studyElectronic supplementary information (ESI) available: normalized X-ray absorption edges, calculated separate contributions of the different scattering paths to the EXAFS oscillations for the dimethyl sulfoxide solvated gallium(iii) and indium(iii) ions in the solid state and solution; correlation between compression ratio (s/h) and bond lengths in [M(dmso)6]3+ co. Dalton Transactions, 2003, , 1746-1753.	3.3	24
59	Structure Studies of Dimeric [Pt2(CN)10]4- Pentacyanoplatinum(III) and Monomeric Pentacyanoplatinum(IV) Complexes by EXAFS, Vibrational Spectroscopy, and X-ray Crystallography. Journal of Physical Chemistry A, 2002, 106, 3501-3516.	2.5	8
60	Structure and bonding of bisaquamercury(ii) and trisaquathallium(iii) trifluoromethanesulfonate. Dalton Transactions RSC, 2002, , 4357-4364.	2.3	21
61	New Class of Oligonuclear Platinumâ^'Thallium Compounds with a Direct Metal-Metal Bond. 5. Structure Determination of Heterodimetallic Cyano Complexes in Aqueous Solution by EXAFS and Vibrational Spectroscopy. Inorganic Chemistry, 2001, 40, 3889-3899.	4.0	36
62	Surface Corrosion Studies on High-Purity Quartz Vessels for Digestive Sample Preparation. Mikrochimica Acta, 2001, 137, 229-241.	5.0	1
63	Vibrational spectra and structure of the cyclopentadienyl-anion (Cpâ^'), the pentamethylcyclopentadienyl-anion (Cp*â^') and of alkali metal cyclopentadienyls CpM and Cp*M (M=Li,) Tj ETQq1 1 0.784314 rgBT /Ov	3.4	
64	Monomerâ^'Dimer Equilibria of Oxo/Imido Complexes of Heptavalent Rhenium: Theoretical and Spectroscopic Investigations. European Journal of Inorganic Chemistry, 2001, 2001, 981-991.	2.0	11
65	Tlâ^'Pt(CN)5 in the Solid Stateâ€"A Multimethod Study of an Unusual Compound Containing Inorganic Wires. Chemistry - A European Journal, 2001, 7, 2167-2177.	3.3	22
66	Palladium as Catalyst in a Polycondensed Matrix, Part ii. Reaction Kinetics and Catalysis Letters, 2001, 73, 187-197.	0.6	0
67	Palladium as a Catalyst in a Polycondensed Matrix, Part 1. Reaction Kinetics and Catalysis Letters, 2000, 71, 153-158.	0.6	1
68	Can the FeCO bending be higher than the FeC stretching frequency in CO adducts of heme proteins?. Chemical Physics Letters, 1998, 287, 531-534.	2.6	11
69	Synthesis, characterization, and reactions of tetrakis(nitrile)chromium(II) tetrafluoroborate complexesâ€Šâ€. Journal of the Chemical Society Dalton Transactions, 1998, , 1293-1298.	1.1	62
70	Vibrational spectroscopic and force field studies of N,N-dimethylthioformamide, N,N-dimethylformamide, their deuterated analogues and bis(N,N-dimethylthioformamide)mercury(II) perchlorate. Vibrational Spectroscopy, 1997, 14, 207-227.	2.2	53
71	Polymer-bound osmium oxide catalysts. Journal of Molecular Catalysis A, 1997, 120, 197-205.	4.8	47
72	Structure of Thallium(III) Chloride, Bromide, and Cyanide Complexes in Aqueous Solution. Journal of the American Chemical Society, 1995, 117, 5089-5104.	13.7	66

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73	Quantitative Aspects of FT-IR Emission Spectroscopy and Simulation of Emission-Absorption Spectra. Analytical Chemistry, 1995, 67, 3782-3787.	6.5	21
74	Multiple Bonds between Main-Group Elements and Transition Metals. 137. Polymeric Methyltrioxorhenium: An Organometallic Nanoscale Double-Layer Structure of Corner-Sharing ReO5(CH3) Octahedra with Intercalated Water Molecules. Journal of the American Chemical Society, 1995, 117, 3231-3243.	13.7	56
75	Chlorotrioxorhenium. Neue Synthesen, Reaktionen und Derivate. Chemische Berichte, 1994, 127, 47-54.	0.2	35
76	Density functional study of nitrogen oxides. Journal of Chemical Physics, 1994, 100, 2910-2923.	3.0	196
77	Complete assignment of vibrational spectra of 1,5-cyclooctadieneâ€"a theoretical and experimental infrared and Raman study. Spectrochimica Acta Part A: Molecular Spectroscopy, 1993, 49, 257-270.	0.1	12
78	FT-IR Emission Spectroscopy and its Applications. Applied Spectroscopy, 1993, 47, 1446-1451.	2.2	29
79	Multiple bonds between transition metals and main-group elements. 124. Structures and reactivity of acylperrhenates. Inorganic Chemistry, 1993, 32, 5188-5194.	4.0	58
80	Singlet- and triplet-state (ethene)nickel: a density functional study. The Journal of Physical Chemistry, 1993, 97, 9986-9991.	2.9	39
81	Significance of Correction for Detector Temperature in Infrared Emission Spectroscopy. Applied Spectroscopy, 1992, 46, 1747-1749.	2.2	4
82	Intramolecular vibrational coupling in the ground electronic state (S0) of trans-stilbene. The Journal of Physical Chemistry, 1990, 94, 2833-2843.	2.9	34
83	Metallomethanes. Journal of Organometallic Chemistry, 1988, 339, 23-31.	1.8	3
84	Metallomethanes. Journal of Organometallic Chemistry, 1986, 301, 1-13.	1.8	13
85	Metallomethanes. Journal of Organometallic Chemistry, 1986, 306, 273-282.	1.8	5
86	Infrared, Raman and force field studies of tetrakis(anionomercuri)methanes. Journal of Organometallic Chemistry, 1983, 256, 203-216.	1.8	17
87	Infrared spectroscopic investigation of the conformational properties of furan-2-carboxylates. Spectrochimica Acta Part A: Molecular Spectroscopy, 1980, 36, 633-637.	0.1	7
88	Magnetic, infrared and catalytic studies of PtFe/SiO2 catalysts. Journal of the Chemical Society Faraday Transactions I, 1980, 76, 782.	1.0	11
89	Force constant calculations for in-plane vibrations of planar platinum(II) and palladium(II) halide anions [M2X6]2â^'. Inorganica Chimica Acta, 1978, 26, 119-124.	2.4	11
90	Vibrational and nuclear magnetic resonance spectroscopic studies on some carbonyl complexes of gold, palladium, platinum, rhodium, and iridium. Journal of the Chemical Society Dalton Transactions, 1977, , 2061.	1.1	81

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91	Infrared, Raman and force field studies of methyl- and perdeuteriomethyl-mercury(II) halides. Journal of the Chemical Society, Faraday Transactions 2, 1976, 72, 1025.	1.1	28
92	Vibrational spectra of square-planar tetrahalogeno-gold(III), -palladium(II), and -platinum(II) anions in solution. Journal of the Chemical Society Dalton Transactions, 1974, , 1479.	1.1	48
93	Palladium(I) carbonyl halide complexes. Journal of the Chemical Society Dalton Transactions, 1974, , 534.	1.1	38