

Nicolae Leopold

List of Publications by Year in descending order

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119
papers

3,883
citations

172207

29
h-index

143772

57
g-index

119
all docs

119
docs citations

119
times ranked

5010
citing authors

#	ARTICLE	IF	CITATIONS
1	SERS-based DNA methylation profiling allows the differential diagnosis of malignant lymphadenopathy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 264, 120216.	2.0	11
2	SERS Liquid Biopsy Profiling of Serum for the Diagnosis of Kidney Cancer. <i>Biomedicines</i> , 2022, 10, 233.	1.4	12
3	SERS liquid biopsy in breast cancer. What can we learn from SERS on serum and urine?. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 273, 120992.	2.0	16
4	Halideâ€“Metal Complexes at Plasmonic Interfaces Create New Decay Pathways for Plasmons and Excited Molecules. <i>ACS Photonics</i> , 2022, 9, 895-904.	3.2	7
5	Combined miRNA and SERS urine liquid biopsy for the point-of-care diagnosis and molecular stratification of bladder cancer. <i>Molecular Medicine</i> , 2022, 28, 39.	1.9	26
6	Chemical Structure, Sources and Role of Bioactive Flavonoids in Cancer Prevention: A Review. <i>Plants</i> , 2022, 11, 1117.	1.6	16
7	Controlling Plasmonic Chemistry Pathways through Specific Ion Effects. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	10
8	The effect of 100â€“200Ånm ZnO and TiO ₂ nanoparticles on the in vitro-grown soybean plants. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 216, 112536.	2.5	15
9	Selective Single Molecule SERRS of Cationic and Anionic Dyes by Cl ⁺ and Mg ²⁺ Adions: An Old New Idea. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12802-12810.	1.5	20
10	Metal-molecule charge transfer through Fermi level equilibration in plasmonic systems. , 2021, , .		0
11	SERS-Based Evaluation of the DNA Methylation Pattern Associated With Progression in Clonal Leukemogenesis of Down Syndrome. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 703268.	2.0	6
12	Fermi Level Equilibration at the Metalâ€“Molecule Interface in Plasmonic Systems. <i>Nano Letters</i> , 2021, 21, 6592-6599.	4.5	25
13	Adduct of Aquacobalamin with Hydrogen Peroxide. <i>Inorganic Chemistry</i> , 2021, 60, 12681-12684.	1.9	13
14	SERS liquid biopsy: An emerging tool for medical diagnosis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 208, 112064.	2.5	41
15	Anthocyanins, Vibrant Color Pigments, and Their Role in Skin Cancer Prevention. <i>Biomedicines</i> , 2020, 8, 336.	1.4	44
16	Photothermal property assessment of gold nanoparticle assemblies obtained by hydroxylamine reduction. <i>Colloid and Polymer Science</i> , 2020, 298, 1369-1377.	1.0	2
17	SERS-Based Assessment of MRD in Acute Promyelocytic Leukemia?. <i>Frontiers in Oncology</i> , 2020, 10, 1024.	1.3	3
18	Solid Plasmonic Substrates for Breast Cancer Detection by Means of SERS Analysis of Blood Plasma. <i>Nanomaterials</i> , 2020, 10, 1212.	1.9	21

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19	<p>Assessment of Gold-Coated Iron Oxide Nanoparticles as Negative T2 Contrast Agent in Small Animal MRI Studies</p>. International Journal of Nanomedicine, 2020, Volume 15, 4811-4824.	3.3	16
20	SERS-Based Liquid Biopsy of Gastrointestinal Tumors Using a Portable Raman Device Operating in a Clinical Environment. Journal of Clinical Medicine, 2020, 9, 212.	1.0	23
21	Cellular Internalization of Beta-Carotene Loaded Polyelectrolyte Multilayer Capsules by Raman Mapping. Molecules, 2020, 25, 1477.	1.7	7
22	Combining surface-enhanced Raman scattering (SERS) of saliva and two-dimensional shear wave elastography (2D-SWE) of the parotid glands in the diagnosis of Sjögren's syndrome. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 235, 118267.	2.0	18
23	Recent advances in surface-enhanced Raman spectroscopy based liquid biopsy for colorectal cancer (Review). Experimental and Therapeutic Medicine, 2020, 20, 1-1.	0.8	10
24	<p>SERS-based differential diagnosis between multiple solid malignancies: breast, colorectal, lung, ovarian and oral cancer</p>. International Journal of Nanomedicine, 2019, Volume 14, 6165-6178.	3.3	62
25	Raman spectroscopy applications in rheumatology. Lasers in Medical Science, 2019, 34, 827-834.	1.0	25
26	SERS-based liquid biopsy of saliva and serum from patients with Sjögren's syndrome. Analytical and Bioanalytical Chemistry, 2019, 411, 5877-5883.	1.9	38
27	Knee osteoarthritis grading by resonant Raman and surface-enhanced Raman scattering (SERS) analysis of synovial fluid. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 20, 102012.	1.7	16
28	Expedite SERS Fingerprinting of Portuguese White Wines Using Plasmonic Silver Nanostars. Frontiers in Chemistry, 2019, 7, 368.	1.8	10
29	Anisotropic Gold Nanoparticle-Cell Interactions Mediated by Collagen. Materials, 2019, 12, 1131.	1.3	16
30	Breast Cancer Diagnosis by Surface-Enhanced Raman Scattering (SERS) of Urine. Applied Sciences (Switzerland), 2019, 9, 806.	1.3	58
31	Warfarin-Capped Gold Nanoparticles: Synthesis, Cytotoxicity, and Cellular Uptake. Molecules, 2019, 24, 4145.	1.7	6
32	The role of Ag ⁺ , Ca ²⁺ , Pb ²⁺ and Al ³⁺ adions in the SERS turn-on effect of anionic analytes. Beilstein Journal of Nanotechnology, 2019, 10, 2338-2345.	1.5	19
33	SERS assessment of the cancer-specific methylation pattern of genomic DNA: towards the detection of acute myeloid leukemia in patients undergoing hematopoietic stem cell transplantation. Analytical and Bioanalytical Chemistry, 2019, 411, 7907-7913.	1.9	26
34	Fe(III) " Sulfide interaction in globins: Characterization and quest for a putative Fe(IV)-sulfide species. Journal of Inorganic Biochemistry, 2018, 179, 32-39.	1.5	12
35	Combining SERS analysis of serum with PSA levels for improving the detection of prostate cancer. Nanomedicine, 2018, 13, 2455-2467.	1.7	53
36	Exosome-carried microRNA-based signature as a cellular trigger for the evolution of chronic lymphocytic leukemia into Richter syndrome. Critical Reviews in Clinical Laboratory Sciences, 2018, 55, 501-515.	2.7	27

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37	SERS-based quantification of albuminuria in the normal-to-mildly increased range. <i>Analyst, The</i> , 2018, 143, 5372-5379.	1.7	26
38	Polyhydroxybutyrate production by an extremely halotolerant <i>Halomonas elongata</i> strain isolated from the hypersaline meromictic Făfrăf Fund Lake (Transylvanian Basin, Romania). <i>Journal of Applied Microbiology</i> , 2018, 125, 1343-1357.	1.4	25
39	Characterization of <i>Trametes versicolor</i> : Medicinal Mushroom with Important Health Benefits. <i>Notulae Botanicae Horti Agrobotanici Cluj-Napoca</i> , 2018, 46, 343-349.	0.5	34
40	The role of adatoms in chloride-activated colloidal silver nanoparticles for surface-enhanced Raman scattering enhancement. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2236-2247.	1.5	48
41	Discrimination of Grapevine Genomic DNA Using Surface-Enhanced Raman Spectroscopy and PCA. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2017, , 499-500.	0.2	0
42	Chlorite reactivity with myoglobin: Analogy with peroxide and nitrite chemistry?. <i>Journal of Inorganic Biochemistry</i> , 2017, 172, 122-128.	1.5	0
43	Discrimination of haloarchaeal genera using Raman spectroscopy and robust methods for multivariate data analysis. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1122-1126.	1.2	12
44	Rapid single-cell detection and identification of pathogens by using surface-enhanced Raman spectroscopy. <i>Analyst, The</i> , 2017, 142, 1782-1789.	1.7	70
45	Reversible naftifine-induced carotenoid depigmentation in <i>Rhodotorula mucilaginosa</i> (A. JÄřrg.) F.C. Harrison causing onychomycosis. <i>Scientific Reports</i> , 2017, 7, 11125.	1.6	18
46	Conformational Preference and Spectroscopical Characteristics of the Active Pharmaceutical Ingredient Levetiracetam. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3564-3573.	1.6	2
47	Rapid Single-cell Detection and Identification of Bacteria by Using Surface-enhanced Raman Spectroscopy. <i>Procedia Technology</i> , 2017, 27, 203-207.	1.1	10
48	Assessment of PEG and BSA-PEG gold nanoparticles cellular interaction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 532, 70-76.	2.3	44
49	Characterization and Discrimination of Gram-Positive Bacteria Using Raman Spectroscopy with the Aid of Principal Component Analysis. <i>Nanomaterials</i> , 2017, 7, 248.	1.9	32
50	Diversity and Biomineralization Potential of the Epilithic Bacterial Communities Inhabiting the Oldest Public Stone Monument of Cluj-Napoca (Transylvania, Romania). <i>Frontiers in Microbiology</i> , 2017, 08, 372.	1.5	21
51	Microfluidic setup for on-line SERS monitoring using laser induced nanoparticle spots as SERS active substrate. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 237-243.	1.5	15
52	Structural Changes Induced in Grapevine (<i>Vitis vinifera</i> L.) DNA by Femtosecond IR Laser Pulses: A Surface-Enhanced Raman Spectroscopic Study. <i>Nanomaterials</i> , 2016, 6, 96.	1.9	9
53	Comparison of the in Vitro Uptake and Toxicity of Collagen- and Synthetic Polymer-Coated Gold Nanoparticles. <i>Nanomaterials</i> , 2015, 5, 1418-1430.	1.9	35
54	Molecular Structure of Phenytoin: NMR, UV-Vis and Quantum Chemical Calculations. <i>Croatica Chemica Acta</i> , 2015, 88, 511-522.	0.1	8

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55	Subpicosecond surface dynamics in genomic DNA from in vitro-grown plant species: a SERS assessment. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21323-21330.	1.3	8
56	Surface-enhanced Raman spectroscopy of genomic DNA from in vitro grown tomato (<i>Lycopersicon</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Molecular and Biomolecular Spectroscopy, 2015, 144, 107-114.	2.0	16
57	Room Temperature Synthesis of Highly Monodisperse and Sers-Active Glucose-Reduced Gold Nanoparticles. <i>Journal of Applied Spectroscopy</i> , 2015, 82, 415-419.	0.3	6
58	Gold nanoparticle assemblies of controllable size obtained by hydroxylamine reduction at room temperature. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	17
59	Green synthesis of gold nanoparticles by <i>Allium sativum</i> extract and their assessment as SERS substrate. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	32
60	Towards a receptor-free immobilization and SERS detection of urinary tract infections causative pathogens. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3051-3058.	1.9	53
61	Raman Scattering Enhancement of Peg Coated Gold Nanoparticles of Defined Size. <i>Journal of Applied Spectroscopy</i> , 2014, 81, 411-415.	0.3	1
62	Simple approach for gold nanoparticle synthesis using an Ar-bubbled plasma setup. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	12
63	Surface-enhanced Raman scattering and DFT investigation of 1,5-diphenylcarbazide and its metal complexes with Ca(II), Mn(II), Fe(III) and Cu(II). <i>Journal of Molecular Structure</i> , 2014, 1073, 10-17.	1.8	5
64	Adsorption of sulfamethoxazole molecule on silver colloids: A joint SERS and DFT study. <i>Journal of Molecular Structure</i> , 2014, 1073, 71-76.	1.8	19
65	In situ Silver Spot Preparation and on-Plate Surface-Enhanced Raman Scattering Detection in Thin Layer Chromatography Separation. <i>Journal of Applied Spectroscopy</i> , 2013, 80, 311-314.	0.3	9
66	Weakly bound PTCDI and PTCDA dimers studied by using MP2 and DFT methods with dispersion correction. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13978.	1.3	7
67	Vibrational spectroscopic and DFT study of trimethoprim. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 102, 52-58.	2.0	9
68	SERS-active silver colloids prepared by reduction of silver nitrate with short-chain polyethylene glycol. <i>Nanoscale Research Letters</i> , 2013, 8, 47.	3.1	105
69	Surface-enhanced Raman scattering assessment of DNA from leaf tissues adsorbed on silver colloidal nanoparticles. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 817-822.	1.2	18
70	One step synthesis of SERS active colloidal gold nanoparticles by reduction with polyethylene glycol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 133-138.	2.3	25
71	DFT study and quantitative detection by surface-enhanced Raman scattering (SERS) of ethyl carbamate. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1491-1496.	1.2	18
72	FTIR, FT-Raman, SERS and DFT study on melamine. <i>Vibrational Spectroscopy</i> , 2012, 62, 165-171.	1.2	204

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73	Absorption spectra of PTCDI: A combined UV-Vis and TD-DFT study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 703-710.	2.0	46
74	Designing Gold Nanoparticle-Ensembles as Surface Enhanced Raman Scattering Tags inside Human Retinal Cells. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-10.	1.5	12
75	Prediction of Total Antioxidant Capacity of Fruit Juices Using FTIR Spectroscopy and PLS Regression. <i>Food Analytical Methods</i> , 2012, 5, 405-407.	1.3	15
76	SERS and DFT investigation of 1-(2-pyridylazo)-2-naphthol and its metal complexes with Al(III), Mn(II), Fe(III), Cu(II), Zn(II) and Pb(II). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 93, 266-273.	2.0	30
77	Subpicosecond dynamics in DNA from leaves of <i>in vitro</i> -grown apple plants: A SERS study. <i>Spectroscopy</i> , 2011, 26, 59-68.	0.8	5
78	Quantification of carbohydrates in fruit juices using FTIR spectroscopy and multivariate analysis. <i>Spectroscopy</i> , 2011, 26, 93-104.	0.8	74
79	Spectroscopic and physical-chemical characterization of ambazone-glutamate salt. <i>Spectroscopy</i> , 2011, 26, 115-128.	0.8	8
80	Molecular relaxation processes in genomic DNA from leaf tissues: A surface-enhanced Raman spectroscopic study. <i>Spectroscopy</i> , 2011, 26, 245-254.	0.8	2
81	Surface-enhanced Raman and DFT study on zidovudine. <i>Spectroscopy</i> , 2011, 26, 311-315.	0.8	12
82	Ultrasensitive detection of genomic DNA from apple leaf tissues, using surface-enhanced Raman scattering. <i>Spectroscopy</i> , 2011, 25, 33-43.	0.8	4
83	SERS approach for Zn(II) detection in contaminated soil. <i>Open Chemistry</i> , 2011, 9, 410-414.	1.0	6
84	In situ laser-induced photochemical silver substrate synthesis and sequential SERS detection in a flow cell. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 815-820.	1.9	20
85	IR, Raman, SERS and DFT study of paroxetine. <i>Journal of Molecular Structure</i> , 2011, 993, 243-248.	1.8	13
86	IR, Raman, SERS and DFT study of pindolol and verapamil. <i>Journal of Molecular Structure</i> , 2011, 993, 308-315.	1.8	3
87	Surface-enhanced Raman spectroscopy of DNA from leaves of <i>in vitro</i> grown apple plants. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 844-850.	1.2	22
88	Surface-enhanced Raman spectroscopy of genomic DNA from <i>in vitro</i> grown plant species. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1925-1931.	1.2	17
89	IR, Raman, SERS and DFT study of amoxicillin. <i>Journal of Molecular Structure</i> , 2011, 993, 52-56.	1.8	66
90	Spectroscopic and DFT study of atenolol and metoprolol and their copper complexes. <i>Journal of Molecular Structure</i> , 2011, 993, 357-366.	1.8	14

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91	Surface-enhanced Raman scattering and DFT investigation of Eriochrome Black T metal chelating compound. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 226-231.	2.0	15
92	Raman and SERS study of metoclopramide at different pH values. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 248-255.	1.2	4
93	On-column silver substrate synthesis and surface-enhanced Raman detection in capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 2341-2348.	1.9	29
94	Nitrogen-Rich Compounds of the Lanthanoids: Highlights and Summary. <i>Helvetica Chimica Acta</i> , 2010, 93, 183-202.	1.0	26
95	Cancer tissue screening using surface enhanced Raman scattering. , 2010, , .		1
96	Nitrogen-Rich Compounds of the Lanthanoids: The 5,5'-Azobis[1 <i>H</i> -tetrazol-4-ylidene] of some Yttrium Earths (Tb, Dy, Ho, Er, Tm, Yb, and Lu). <i>Helvetica Chimica Acta</i> , 2009, 92, 1371-1384.	1.0	20
97	Nitrogen-Rich Compounds of the Lanthanoids: The 5,5'-Azobis[1 <i>H</i> -tetrazol-4-ylidene] of the Light Rare Earths (Ce, Pr, Nd, Sm, Eu, Gd). <i>Helvetica Chimica Acta</i> , 2009, 92, 2038-2051.	1.0	19
98	Raman spectroscopic and DFT theoretical study of 4-(2-pyridylazo)resorcinol and its complexes with zinc(II) and copper(II). <i>Journal of Molecular Structure</i> , 2009, 919, 94-99.	1.8	18
99	Vibrational and electronic structure of PTCDI and melamine-PTCDI complexes. <i>Journal of Molecular Structure</i> , 2009, 924-926, 47-53.	1.8	27
100	Spectroscopic and theoretical study of amlodipine besylate. <i>Journal of Molecular Structure</i> , 2009, 924-926, 385-392.	1.8	23
101	IR absorption and reflectometric interference spectroscopy (RIFS) combined to a new sensing approach for gas analytes absorbed into thin polymer films. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 72, 994-999.	2.0	20
102	Vibrational and DFT study of 5-(3-pyridyl-methylidene)-thiazolidine-2-thione-4-one. <i>Vibrational Spectroscopy</i> , 2008, 48, 289-296.	1.2	45
103	Spectroscopic and theoretical studies of dofetilide. <i>Vibrational Spectroscopy</i> , 2008, 48, 297-301.	1.2	8
104	Raman, surface-enhanced Raman scattering and DFT study of para-nitro-aniline. <i>Vibrational Spectroscopy</i> , 2008, 48, 210-214.	1.2	41
105	Monosodium glutamate in its anhydrous and monohydrate form: Differentiation by Raman spectroscopies and density functional calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 66, 604-615.	2.0	30
106	Interaction behaviour of a PDMS-calixarene system and polar analytes characterised by microcalorimetry and spectroscopic methods. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1879-1887.	1.9	4
107	IR, Raman and surface-enhanced Raman study of desferrioxamine B and its Fe(III) complex, ferrioxamine B. <i>Journal of Molecular Structure</i> , 2006, 788, 1-6.	1.8	41
108	Microarray Biochips - Thousands of Reactions on a Small Chip (MOBA). , 2006, , 405-476.		0

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109	Spectroscopic investigations of new Cu(II), Co(II), Ni(II) complexes with \hat{I}^3 -l-glutamyl amide as ligand. Journal of Molecular Structure, 2005, 744-747, 325-330.	1.8	9
110	Raman and surface-enhanced Raman study of thiamine at different pH values. Vibrational Spectroscopy, 2005, 39, 169-176.	1.2	64
111	Identification and characterization of pharmaceuticals using Raman and surface-enhanced Raman scattering. Journal of Raman Spectroscopy, 2004, 35, 338-346.	1.2	131
112	Raman, IR, and surface-enhanced Raman spectroscopy of papaverine. Vibrational Spectroscopy, 2004, 36, 47-55.	1.2	19
113	Raman, SERS and theoretical studies of papaverine hydrochloride and its neutral species. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 2021-2028.	2.0	14
114	On-Line Monitoring of Airborne Chemistry in Levitated Nanodroplets: In Situ Synthesis and Application of SERS-Active Ag^0 Sols for Trace Analysis by FT-Raman Spectroscopy. Analytical Chemistry, 2003, 75, 2166-2171.	3.2	70
115	A New Method for Fast Preparation of Highly Surface-Enhanced Raman Scattering (SERS) Active Silver Colloids at Room Temperature by Reduction of Silver Nitrate with Hydroxylamine Hydrochloride. Journal of Physical Chemistry B, 2003, 107, 5723-5727.	1.2	1,040
116	Vibrational spectroscopy of betulinic acid HIV inhibitor and of its birch bark natural source. Talanta, 2002, 57, 625-631.	2.9	34
117	Raman and surface-enhanced Raman spectroscopy of tempyo spin labelled ovalbumin. Journal of Molecular Structure, 2001, 565-566, 225-229.	1.8	22
118	Raman and surface enhanced Raman spectroscopy of 2,2,5,5-tetramethyl-3-pyrrolin-1-yloxy-3-carboxamide labeled proteins: Bovine serum albumin and cytochrome c. Biopolymers, 2001, 62, 341-348.	1.2	35
119	Interaction Behaviour of the Ultramicroporous Polymer Makrolon \hat{A} by Spectroscopic Methods. , 0, , 16-22.		2