Reiner Salzer

List of Publications by Year
in descending order

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104 papers	3,352 citations	159358 30 h-index	149479 56 g-index
136 all docs	136 docs citations	136 times ranked	3865 citing authors

#	Article	IF	Citations
1	Yury A. Zolotov: Russian contributions to analytical chemistry. Analytical and Bioanalytical Chemistry, 2019, 411, 1493-1494.	1.9	0
2	Smartphones as audience response systems for lectures and seminars. Analytical and Bioanalytical Chemistry, 2018, 410, 1609-1613.	1.9	17
3	Employment and Careers of European Chemists (ESEC2). Chemistry - A European Journal, 2018, 24, 17370-17388.	1.7	6
4	Raman and infrared spectra, conformations and ab initio calculations of 3-methoxymethylene-2,4-pentanedione. Acta Chimica Slovaca, 2015, 8, 203-216.	0.5	0
5	Education and careers of European analytical chemists. Analytical and Bioanalytical Chemistry, 2015, 407, 639-643.	1.9	3
6	Guest Editorial: The Professional Status of European Chemists and Chemical Engineers. Chemistry - A European Journal, 2015, 21, 9921-9935.	1.7	8
7	Educating tomorrowâ€™s chemists. Analytical and Bioanalytical Chemistry, 2014, 406, 3251-3255.	1.9	4
8	Validation of soft classification models using partial class memberships: An extended concept of sensitivity & co. applied to grading of astrocytoma tissues. Chemometrics and Intelligent Laboratory Systems, 2013, 122, 12-22.	1.8	43
9	European Analytical Column No. 40. Analytical and Bioanalytical Chemistry, 2012, 404, 5-7.	1.9	0
10	European Analytical Column. TrAC - Trends in Analytical Chemistry, 2012, 35, 1-3.	5.8	1
11	Changing careers in chemistry. Analytical and Bioanalytical Chemistry, 2012, 402, 25-28.	1.9	6
12	Raman spectroscopic grading of astrocytoma tissues: using soft reference information. Analytical and Bioanalytical Chemistry, 2011, 400, 2801-2816.	1.9	39
13	Intra-operative optical diagnostics with vibrational spectroscopy. Analytical and Bioanalytical Chemistry, 2011, 400, 2745-2753.	1.9	12
14	Analytical biophotonics. Analytical and Bioanalytical Chemistry, 2011, 400, 2685-2686.	1.9	4
15	Raman spectroscopic imaging for in vivo detection of cerebral brain metastases. Analytical and Bioanalytical Chemistry, 2010, 398, 1707-1713.	1.9	141
16	Infrarotspektroskopische Untersuchungen zur Erfassung und Interpretation von Bandenformindices. Zeitschrift FÃ¼r Chemie, 2010, 27, 186-187.	0.0	0
17	Direkte HPLC-FTIR-Kopplung zur Identifizierung von Phenolderivaten. Zeitschrift FÃ¼r Chemie, 2010, 29, 215-216.	0.0	0
18	Zur computergestÃ¼tzten FTIR-spektroskopischen Identifizierung von organischen Stoffgruppen Im Spurenbereich. Zeitschrift FÃ¼r Chemie, 2010, 29, 256-256.	0.0	0

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19	Disease recognition by infrared and Raman spectroscopy. Journal of Biophotonics, 2009, 2, 13-28.	1.1	258
20	Suitability of infrared spectroscopic imaging as an intraoperative tool in cerebral glioma surgery. Analytical and Bioanalytical Chemistry, 2009, 393, 187-195.	1.9	33
21	Characterization of lipid extracts from brain tissue and tumors using Raman spectroscopy and mass spectrometry. Analytical and Bioanalytical Chemistry, 2009, 393, 1513-1520.	1.9	93
22	Master programs in analytical chemistry. Analytical and Bioanalytical Chemistry, 2009, 394, 649-653.	1.9	7
23	PM-IRRAS mapping of ultrathin molecular films with high spatial resolution. Analytical and Bioanalytical Chemistry, 2009, 395, 1641-1650.	1.9	5
24	Quantification of brain lipids by FTIR spectroscopy and partial least squares regression. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 71, 2069-2075.	2.0	131
25	Assessing and improving the stability of chemometric models in small sample size situations. Analytical and Bioanalytical Chemistry, 2008, 390, 1261-1271.	1.9	46
26	Rapid and labelâ€free classification of human glioma cells by infrared spectroscopic imaging. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 1158-1164.	1.1	23
27	Highâ€Impact Sulfur Compounds: Constitutional and Configurational Assignment of Sulfurâ€Containing Heterocycles. Chemistry and Biodiversity, 2008, 5, 1204-1212.	1.0	9
28	Hydrogel-Based Piezoresistive pH Sensors:â€‰ Investigations Using FT-IR Attenuated Total Reflection Spectroscopic Imaging. Analytical Chemistry, 2008, 80, 2957-2962.	3.2	61
29	Infrared spectroscopic imaging with high spatial resolution and high sensitivity. Proceedings of SPIE, 2008, , .	0.8	0
30	Conformational Changes during Protein Adsorption. FT-IR Spectroscopic Imaging of Adsorbed Fibrinogen Layers. Analytical Chemistry, 2007, 79, 1311-1316.	3.2	75
31	Differentiation of individual human mesenchymal stem cells probed by FTIR microscopic imaging. Analyst, The, 2007, 132, 647.	1.7	61
32	Determination of configurational isomers in cyclic polysulfides by Raman spectroscopy. Vibrational Spectroscopy, 2007, 43, 49-52.	1.2	7
33	Classification of malignant gliomas by infrared spectroscopic imaging and linear discriminant analysis. Analytical and Bioanalytical Chemistry, 2007, 387, 1669-1677.	1.9	70
34	Methodology for fiber-optic Raman mapping and FTIR imaging of metastases in mouse brains. Analytical and Bioanalytical Chemistry, 2007, 389, 1133-1142.	1.9	111
35	Molecular imaging. Analytical and Bioanalytical Chemistry, 2007, 389, 1101-1102.	1.9	2
36	SPR imaging as a tool for detecting mucin â€“ anti-mucin interaction. Outline of the development of a sensor for near-patient testing for mucin. Mikrochimica Acta, 2007, 158, 219-225.	2.5	15

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37	Fast and Objective Classification of Tumor Tissue by Optical Vibrational Spectroscopy. , 2007, , 378-383.		0
38	Studies on Stress-Induced Changes at the Subcellular Level by Raman Microspectroscopic Mapping. Analytical Chemistry, 2006, 78, 4424-4429.	3.2	128
39	Characterization of Metal-Supported Poly(methyl methacrylate) Microstructures by FTIR Imaging Spectroscopy. Langmuir, 2006, 22, 4125-4130.	1.6	16
40	Polarization Modulation-Infrared Reflection Absorption Spectroscopic Mapping. Analytical Chemistry, 2006, 78, 2487-2493.	3.2	6
41	Identification of primary tumors of brain metastases by SIMCA classification of IR spectroscopic images. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 883-891.	1.4	89
42	Blood compatibility of artificial blood vessels probed by infrared spectroscopic imaging. , 2006, , .		0
43	Analytische Chemie 2005. Nachrichten Aus Der Chemie, 2006, 54, 382-389.	0.0	1
44	Delimitation of squamous cell cervical carcinoma using infrared microspectroscopic imaging. Analytical and Bioanalytical Chemistry, 2006, 384, 145-154.	1.9	75
45	Classification of malignant gliomas by infrared spectroscopy and linear discriminant analysis. Biopolymers, 2006, 82, 301-305.	1.2	65
46	Raman and infrared spectroscopic mapping of human primary intracranial tumors: a comparative study. Journal of Raman Spectroscopy, 2006, 37, 367-375.	1.2	76
47	Combination of SPR and PM-IRRAS for characterization and detection of biosensor arrays. , 2006, , .		0
48	Identification of Primary Tumors of Brain Metastases by Infrared Spectroscopic Imaging and Linear Discriminant Analysis. Technology in Cancer Research and Treatment, 2006, 5, 291-298.	0.8	46
49	<title>In vivo investigation of protein adsorption on implant surfaces</title>. , 2005, 5768, 19.		0
50	Optical Spectroscopy. , 2005, , 441-468.		0
51	Near infrared Raman spectra of human brain lipids. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 1529-1535.	2.0	471
52	Photoresponsive upper-rim azobenzene substituted calix[4]resorcinarenes. Tetrahedron Letters, 2005, 46, 3377-3379.	0.7	17
53	Variance reduction in estimating classification error using sparse datasets. Chemometrics and Intelligent Laboratory Systems, 2005, 79, 91-100.	1.8	47
54	In situ conformational analysis of fibrinogen adsorbed on Si surfaces. Colloids and Surfaces B: Biointerfaces, 2005, 42, 219-225.	2.5	125

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55	Identification of organelles and vesicles in single cells by Raman microspectroscopic mapping. Vibrational Spectroscopy, 2005, 38, 85-93.	1.2	87
56	Identification of B and T cells in human spleen sections by infrared microspectroscopic imaging. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 64A, 53-61.	1.1	31
57	Analytical chemistry in the European higher education area. Analytical and Bioanalytical Chemistry, 2005, 381, 33-40.	1.9	7
58	Quantitative determination of cationic modified polysaccharides on hair using LCâ€“MS and LCâ€“MSâ€“MS. Analytical and Bioanalytical Chemistry, 2005, 381, 1401-1407.	1.9	14
59	Near infrared Raman spectroscopic mapping of native brain tissue and intracranial tumors. Analyst, The, 2005, 130, 1070.	1.7	145
60	Spectroscopy challenge 6. Analytical and Bioanalytical Chemistry, 2004, 379, 1-2.	1.9	1
61	Spectroscopy Challenge 7. Analytical and Bioanalytical Chemistry, 2004, 379, 741.	1.9	0
62	Solution to Spectroscopy Challenge 6. Analytical and Bioanalytical Chemistry, 2004, 380, 5-6.	1.9	1
63	Solution to Spectroscopy Challenge 7. Analytical and Bioanalytical Chemistry, 2004, 380, 734-735.	1.9	5
64	Analysis of human brain tissue, brain tumors and tumor cells by infrared spectroscopic mapping. Analyst, The, 2004, 129, 921.	1.7	75
65	Analytische Chemie 2003. Nachrichten Aus Der Chemie, 2004, 52, 544-553.	0.0	0
66	Health monitoring of biomaterials from molecular fingerprints. , 2004, , .		0
67	Analytical partnership. Analytical and Bioanalytical Chemistry, 2003, 375, 4-4.	1.9	0
68	A Tribute to Wilhelm Fresenius. Analytical and Bioanalytical Chemistry, 2003, 376, 765-766.	1.9	0
69	Internet Teaching: Laboratory Course in Analytical Chemistry. Mikrochimica Acta, 2003, 142, 153-159.	2.5	11
70	Distinguishing and grading human gliomas by IR spectroscopy. Biopolymers, 2003, 72, 464-471.	1.2	65
71	Infrared and Raman spectra, ab initio calculations and conformational studies of ethyl iodosilane. Journal of Molecular Structure, 2003, 644, 105-118.	1.8	5
72	Mapping of single cells by near infrared Raman microspectroscopy. Vibrational Spectroscopy, 2003, 32, 75-83.	1.2	170

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73	Near-infrared Raman spectroscopy to study the composition of human brain tissue and tumors. , 2003, , .		9
74	Linked Curriculum â€“ Chemistry: Different from a Virtual University Vernetztes Studium â€“ Chemie: anders als eine virtuelle UniversitÃt. Chimia, 2003, 57, 105-115.	0.3	6
75	Optical biosensor array based on natural ion channels. , 2003, , .		3
76	Spectral staining of tumor tissue by fiber optic FTIR spectroscopy. , 2003, 5047, 362.		2
77	<title>Detection and grading of human gliomas by FTIR spectroscopy and a genetic classification algorithm</title>. , 2002, , .		1
78	Trendbericht Analytische Chemie 2000/2001. Nachrichten Aus Der Chemie, 2002, 50, 483-487.	0.0	1
79	<title>Probing brain cancer by fiber optic FTIR spectroscopy</title>. , 2002, , .		2
80	Identification of tumor tissue by FTIR spectroscopy in combination with positron emission tomography. Vibrational Spectroscopy, 2002, 28, 103-110.	1.2	43
81	Characterization of ultra-thin polymer films by polarization modulation FTIR spectroscopy. Macromolecular Symposia, 2001, 164, 159-166.	0.4	1
82	Integration of ion channel proteins into a polymer matrixâ€“ investigation by the patch-clamp technique. Macromolecular Symposia, 2001, 164, 239-246.	0.4	7
83	Investigation on native vesicles containing the nicotinic acetylcholine receptor using FTIR-spectroscopy. Journal of Molecular Structure, 2001, 570, 153-158.	1.8	2
84	Surface-enhanced FTIR spectroscopy and surface plasmon resonance on biomembranes. , 2000, 3918, 215.		2
85	Analytische Chemie 1999. Nachrichten Aus Der Chemie, 2000, 48, 348-354.	0.0	1
86	<title>Identification of cancer cells by a combination of FTIR spectroscopy and PET</title>. , 2000, 3920, 93.		1
87	Rapid Access to Infrared Reference Spectra of Arbitrary Organic Compounds: Scope and Limitations of an Approach to the Simulation of Infrared Spectra by Neural Networks. Chemistry - A European Journal, 2000, 6, 920-927.	1.7	32
88	Improved Response and Steady State Times For Fibre Optical Sensors by Supported Liquid Membranes. Analytical Letters, 2000, 33, 1247-1264.	1.0	0
89	Applications of surface-enhanced spectroscopic techniques to biosystems. , 1998, , .		1
90	<title>Investigation of functionalized biomembranes by ATR-SEIRA spectroscopy with polarized light</title>. , 1998, , .		1

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91	‹title›Spectroscopic investigation of the nicotinic acetylcholine receptor for application in medical diagnosis‹/title›. , 1998, , .		0
92	Investigations on hydrogen spillover. Part 1.â€"Electrical conductivity studies on titanium dioxide. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 1091-1095.	1.7	54
93	In situ investigation of solid state lon exchange in zeolites using Fourier transform infrared spectroscopy. Analyst, The, 1992, 117, 351.	1.7	6
94	HPLCâ€FTIR identification of reactive diluents in epoxy resins. Makromolekulare Chemie Macromolecular Symposia, 1991, 52, 261-268.	0.6	2
95	FTi.r. (DRIFT-) investigation of glass-covered samples: Raman background and the acid strength of H-erionites. Zeolites, 1991, 11, 694-698.	0.9	3
96	Bewertung von IRâ€Konformatiensuntersuchungen mittels Faktoranalyse. Zeitschrift FÃ¼r Chemie, 1990, 30, 256-257.	0.0	0
97	Zur IRâ€spektroskopischen Spurenbestimmung organischer Stoffe. Zeitschrift FÃ¼r Chemie, 1989, 29, 254-255.	0.0	0
98	Quantitative Strukturgruppenanalyse an Kohlen wasserstoffgemischen im NIR. Zeitschrift FÃ¼r Chemie, 1988, 28, 147-148.	0.0	1
99	Schwingungsspektroskopie im Nahen Infrarot. Zeitschrift FÃ¼r Chemie, 1986, 26, 275-284.	0.0	4
100	Strukturgruppenanalyse an Kohlenwasserstoffgemischen im NIR. Zeitschrift FÃ¼r Chemie, 1985, 25, 263-264.	0.0	3
101	Zur ObjektivitÄt digitaler Bandentrennungen. Zeitschrift FÃ¼r Chemie, 1980, 20, 117-122.	0.0	8
102	Ãœber die Integralabsorption der CXâ€Valenzschwingungen homologer 1â€substituierter geradkettiger Alkanderivate. Zeitschrift FÃ¼r Chemie, 1973, 13, 30-31.	0.0	3
103	Molecular Imagingof Microstructured Polymer Surfaces. , 0, , 7-15.		1
104	ATR-FT-IR Imaging for Pharmaceutical and Polymeric Materials: From Micro to Macro Approaches. , 0, , 347-375.		5