

# 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	Near infrared Raman spectra of human brain lipids. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 1529-1535.	2.0	471
2	Disease recognition by infrared and Raman spectroscopy. <i>Journal of Biophotonics</i> , 2009, 2, 13-28.	1.1	258
3	Mapping of single cells by near infrared Raman microspectroscopy. <i>Vibrational Spectroscopy</i> , 2003, 32, 75-83.	1.2	170
4	Near infrared Raman spectroscopic mapping of native brain tissue and intracranial tumors. <i>Analyst, The</i> , 2005, 130, 1070.	1.7	145
5	Raman spectroscopic imaging for in vivo detection of cerebral brain metastases. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 1707-1713.	1.9	141
6	Quantification of brain lipids by FTIR spectroscopy and partial least squares regression. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 71, 2069-2075.	2.0	131
7	Studies on Stress-Induced Changes at the Subcellular Level by Raman Microspectroscopic Mapping. <i>Analytical Chemistry</i> , 2006, 78, 4424-4429.	3.2	128
8	In situ conformational analysis of fibrinogen adsorbed on Si surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 42, 219-225.	2.5	125
9	Methodology for fiber-optic Raman mapping and FTIR imaging of metastases in mouse brains. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1133-1142.	1.9	111
10	Characterization of lipid extracts from brain tissue and tumors using Raman spectroscopy and mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1513-1520.	1.9	93
11	Identification of primary tumors of brain metastases by SIMCA classification of IR spectroscopic images. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 883-891.	1.4	89
12	Identification of organelles and vesicles in single cells by Raman microspectroscopic mapping. <i>Vibrational Spectroscopy</i> , 2005, 38, 85-93.	1.2	87
13	Raman and infrared spectroscopic mapping of human primary intracranial tumors: a comparative study. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 367-375.	1.2	76
14	Analysis of human brain tissue, brain tumors and tumor cells by infrared spectroscopic mapping. <i>Analyst, The</i> , 2004, 129, 921.	1.7	75
15	Delimitation of squamous cell cervical carcinoma using infrared microspectroscopic imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 145-154.	1.9	75
16	Conformational Changes during Protein Adsorption. FT-IR Spectroscopic Imaging of Adsorbed Fibrinogen Layers. <i>Analytical Chemistry</i> , 2007, 79, 1311-1316.	3.2	75
17	Classification of malignant gliomas by infrared spectroscopic imaging and linear discriminant analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1669-1677.	1.9	70
18	Distinguishing and grading human gliomas by IR spectroscopy. <i>Biopolymers</i> , 2003, 72, 464-471.	1.2	65

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19	Classification of malignant gliomas by infrared spectroscopy and linear discriminant analysis. <i>Biopolymers</i> , 2006, 82, 301-305.	1.2	65
20	Differentiation of individual human mesenchymal stem cells probed by FTIR microscopic imaging. <i>Analyst</i> , The, 2007, 132, 647.	1.7	61
21	Hydrogel-Based Piezoresistive pH Sensors: Investigations Using FT-IR Attenuated Total Reflection Spectroscopic Imaging. <i>Analytical Chemistry</i> , 2008, 80, 2957-2962.	3.2	61
22	Investigations on hydrogen spillover. Part 1. Electrical conductivity studies on titanium dioxide. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 1091-1095.	1.7	54
23	Variance reduction in estimating classification error using sparse datasets. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2005, 79, 91-100.	1.8	47
24	Identification of Primary Tumors of Brain Metastases by Infrared Spectroscopic Imaging and Linear Discriminant Analysis. <i>Technology in Cancer Research and Treatment</i> , 2006, 5, 291-298.	0.8	46
25	Assessing and improving the stability of chemometric models in small sample size situations. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1261-1271.	1.9	46
26	Identification of tumor tissue by FTIR spectroscopy in combination with positron emission tomography. <i>Vibrational Spectroscopy</i> , 2002, 28, 103-110.	1.2	43
27	Validation of soft classification models using partial class memberships: An extended concept of sensitivity & co. applied to grading of astrocytoma tissues. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2013, 122, 12-22.	1.8	43
28	Raman spectroscopic grading of astrocytoma tissues: using soft reference information. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 2801-2816.	1.9	39
29	Suitability of infrared spectroscopic imaging as an intraoperative tool in cerebral glioma surgery. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 187-195.	1.9	33
30	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. <i>Chemistry - A European Journal</i> , 2000, 6, 920-927.	1.7	32
31	Identification of B and T cells in human spleen sections by infrared microspectroscopic imaging. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2005, 64A, 53-61.	1.1	31
32	Rapid and label-free classification of human glioma cells by infrared spectroscopic imaging. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 1158-1164.	1.1	23
33	Photoresponsive upper-rim azobenzene substituted calix[4]resorcinarenes. <i>Tetrahedron Letters</i> , 2005, 46, 3377-3379.	0.7	17
34	Smartphones as audience response systems for lectures and seminars. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1609-1613.	1.9	17
35	Characterization of Metal-Supported Poly(methyl methacrylate) Microstructures by FTIR Imaging Spectroscopy. <i>Langmuir</i> , 2006, 22, 4125-4130.	1.6	16
36	SPR imaging as a tool for detecting mucin anti-mucin interaction. Outline of the development of a sensor for near-patient testing for mucin. <i>Mikrochimica Acta</i> , 2007, 158, 219-225.	2.5	15

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37	Quantitative determination of cationic modified polysaccharides on hair using LC-MS and LC-MS-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 381, 1401-1407.	1.9	14
38	Intra-operative optical diagnostics with vibrational spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 2745-2753.	1.9	12
39	Internet Teaching: Laboratory Course in Analytical Chemistry. <i>Mikrochimica Acta</i> , 2003, 142, 153-159.	2.5	11
40	Near-infrared Raman spectroscopy to study the composition of human brain tissue and tumors. , 2003, , .		9
41	High-Impact Sulfur Compounds: Constitutional and Configurational Assignment of Sulfur-Containing Heterocycles. <i>Chemistry and Biodiversity</i> , 2008, 5, 1204-1212.	1.0	9
42	Zur Objektivität digitaler Bandentrennungen. <i>Zeitschrift für Chemie</i> , 1980, 20, 117-122.	0.0	8
43	Guest Editorial: The Professional Status of European Chemists and Chemical Engineers. <i>Chemistry - A European Journal</i> , 2015, 21, 9921-9935.	1.7	8
44	Integration of ion channel proteins into a polymer matrix- investigation by the patch-clamp technique. <i>Macromolecular Symposia</i> , 2001, 164, 239-246.	0.4	7
45	Analytical chemistry in the European higher education area. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 381, 33-40.	1.9	7
46	Determination of configurational isomers in cyclic polysulfides by Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2007, 43, 49-52.	1.2	7
47	Master programs in analytical chemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 649-653.	1.9	7
48	In situ investigation of solid state ion exchange in zeolites using Fourier transform infrared spectroscopy. <i>Analyst, The</i> , 1992, 117, 351.	1.7	6
49	Linked Curriculum - Chemistry: Different from a Virtual University Vernetztes Studium - Chemie: anders als eine virtuelle Universität. <i>Chimia</i> , 2003, 57, 105-115.	0.3	6
50	Polarization Modulation-Infrared Reflection Absorption Spectroscopic Mapping. <i>Analytical Chemistry</i> , 2006, 78, 2487-2493.	3.2	6
51	Changing careers in chemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 25-28.	1.9	6
52	Employment and Careers of European Chemists (ESEC2). <i>Chemistry - A European Journal</i> , 2018, 24, 17370-17388.	1.7	6
53	Infrared and Raman spectra, ab initio calculations and conformational studies of ethyl iododisilane. <i>Journal of Molecular Structure</i> , 2003, 644, 105-118.	1.8	5
54	Solution to Spectroscopy Challenge 7. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 380, 734-735.	1.9	5

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55	ATR-FT-IR Imaging for Pharmaceutical and Polymeric Materials: From Micro to Macro Approaches. , 0, , 347-375.		5
56	PM-IRRAS mapping of ultrathin molecular films with high spatial resolution. Analytical and Bioanalytical Chemistry, 2009, 395, 1641-1650.	1.9	5
57	Schwingungsspektroskopie im Nahen Infrarot. Zeitschrift für Chemie, 1986, 26, 275-284.	0.0	4
58	Analytical biophotonics. Analytical and Bioanalytical Chemistry, 2011, 400, 2685-2686.	1.9	4
59	Educating tomorrow's chemists. Analytical and Bioanalytical Chemistry, 2014, 406, 3251-3255.	1.9	4
60	Über die Integralabsorption der C-Valenzschwingungen homologer 1-substituierter geradkettiger Alkanderivate. Zeitschrift für Chemie, 1973, 13, 30-31.	0.0	3
61	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
62	Optical biosensor array based on natural ion channels. , 2003, , .		3
63	Strukturgruppenanalyse an Kohlenwasserstoffgemischen im NIR. Zeitschrift für Chemie, 1985, 25, 263-264.	0.0	3
64	Education and careers of European analytical chemists. Analytical and Bioanalytical Chemistry, 2015, 407, 639-643.	1.9	3
65	HPLC-FTIR identification of reactive diluents in epoxy resins. Makromolekulare Chemie Macromolecular Symposia, 1991, 52, 261-268.	0.6	2
66	Surface-enhanced FTIR spectroscopy and surface plasmon resonance on biomembranes. , 2000, 3918, 215.		2
67	Investigation on native vesicles containing the nicotinic acetylcholine receptor using FTIR-spectroscopy. Journal of Molecular Structure, 2001, 570, 153-158.	1.8	2
68	<title>Probing brain cancer by fiber optic FTIR spectroscopy</title>. , 2002, , .		2
69	Spectral staining of tumor tissue by fiber optic FTIR spectroscopy. , 2003, 5047, 362.		2
70	Molecular imaging. Analytical and Bioanalytical Chemistry, 2007, 389, 1101-1102.	1.9	2
71	Applications of surface-enhanced spectroscopic techniques to biosystems. , 1998, , .		1
72	<title>Investigation of functionalized biomembranes by ATR-SEIRA spectroscopy with polarized light</title>. , 1998, , .		1

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73	Analytische Chemie 1999. Nachrichten Aus Der Chemie, 2000, 48, 348-354.	0.0	1
74	<title>Identification of cancer cells by a combination of FTIR spectroscopy and PET</title>. , 2000, 3920, 93.		1
75	Characterization of ultra-thin polymer films by polarization modulation FTIR spectroscopy. Macromolecular Symposia, 2001, 164, 159-166.	0.4	1
76	<title>Detection and grading of human gliomas by FTIR spectroscopy and a genetic classification algorithm</title>. , 2002, , .		1
77	Trendbericht Analytische Chemie 2000/2001. Nachrichten Aus Der Chemie, 2002, 50, 483-487.	0.0	1
78	Spectroscopy challenge 6. Analytical and Bioanalytical Chemistry, 2004, 379, 1-2.	1.9	1
79	Solution to Spectroscopy Challenge 6. Analytical and Bioanalytical Chemistry, 2004, 380, 5-6.	1.9	1
80	Analytische Chemie 2005. Nachrichten Aus Der Chemie, 2006, 54, 382-389.	0.0	1
81	Molecular Imaging of Microstructured Polymer Surfaces. , 0, , 7-15.		1
82	Quantitative Strukturgruppenanalyse an Kohlen wasserstoffgemischen im NIR. Zeitschrift FÄ¼r Chemie, 1988, 28, 147-148.	0.0	1
83	European Analytical Column. TrAC - Trends in Analytical Chemistry, 2012, 35, 1-3.	5.8	1
84	<title>Spectroscopic investigation of the nicotinic acetylcholine receptor for application in medical diagnosis</title>. , 1998, , .		0
85	Improved Response and Steady State Times For Fibre Optical Sensors by Supported Liquid Membranes. Analytical Letters, 2000, 33, 1247-1264.	1.0	0
86	Analytical partnership. Analytical and Bioanalytical Chemistry, 2003, 375, 4-4.	1.9	0
87	A Tribute to Wilhelm Fresenius. Analytical and Bioanalytical Chemistry, 2003, 376, 765-766.	1.9	0
88	Spectroscopy Challenge 7. Analytical and Bioanalytical Chemistry, 2004, 379, 741.	1.9	0
89	Analytische Chemie 2003. Nachrichten Aus Der Chemie, 2004, 52, 544-553.	0.0	0
90	Health monitoring of biomaterials from molecular fingerprints. , 2004, , .		0

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91	<title>In vivo investigation of protein adsorption on implant surfaces</title> . , 2005, 5768, 19.		0
92	Optical Spectroscopy. , 2005, , 441-468.		0
93	Blood compatibility of artificial blood vessels probed by infrared spectroscopic imaging. , 2006, , .		0
94	Combination of SPR and PM-IRRAS for characterization and detection of biosensor arrays. , 2006, , .		0
95	Infrared spectroscopic imaging with high spatial resolution and high sensitivity. Proceedings of SPIE, 2008, , .	0.8	0
96	Infrarotspektroskopische Untersuchungen zur Erfassung und Interpretation von Bandenformindizes. Zeitschrift F�r Chemie, 2010, 27, 186-187.	0.0	0
97	Direkte HPLC-FTIR-Kopplung zur Identifizierung von Phenolderivaten. Zeitschrift F�r Chemie, 2010, 29, 215-216.	0.0	0
98	Zur IR-spektroskopischen Spurenbestimmung organischer Stoffe. Zeitschrift F�r Chemie, 1989, 29, 254-255.	0.0	0
99	Zur computergest�tzten FTIR-spektroskopischen Identifizierung von organischen Stoffgruppen Im Spurenbereich. Zeitschrift F�r Chemie, 2010, 29, 256-256.	0.0	0
100	Bewertung von IR-Konformationsuntersuchungen mittels Faktoranalyse. Zeitschrift F�r Chemie, 1990, 30, 256-257.	0.0	0
101	European Analytical Column No. 40. Analytical and Bioanalytical Chemistry, 2012, 404, 5-7.	1.9	0
102	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
103	Yury A. Zolotov: Russian contributions to analytical chemistry. Analytical and Bioanalytical Chemistry, 2019, 411, 1493-1494.	1.9	0
104	Fast and Objective Classification of Tumor Tissue by Optical Vibrational Spectroscopy. , 2007, , 378-383.		0