Volker Deckert

List of Publications by Year in Descending Order

168 papers	9,484 citations	46 h-index	94 g-index
193 ext. papers	10,950 ext. citations	6.2 avg, IF	6.24 L-index

#	Paper	IF	Citations
168	Raman Spectroscopy and Imaging in Bioanalytics.. *Analytical Chemistry*, **2021**,	7.8	4
167	pH-dependent disintegration of insulin amyloid fibrils monitored with atomic force microscopy and surface-enhanced Raman spectroscopy. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 256, 119672	4.4	1
166	Effects of substrate temperature and intermediate layer on adhesion, structural and mechanical properties of coaxial arc plasma deposition grown nanodiamond composite films on Si substrates. *Surface and Coatings Technology*, **2021**, 417, 127185	4.4	2
165	The impact of episporic modification of on virulence and interaction with phagocytes. *Computational and Structural Biotechnology Journal*, **2021**, 19, 880-896	6.8	1
164	Characterization of a library of vitamin A-functionalized polymethacrylate-based nanoparticles for siRNA delivery. *Polymer Chemistry*, **2021**, 12, 911-925	4.9	3
163	Supramolecular Reorientation During Deposition Onto Metal Surfaces of Quasi-Two-Dimensional Langmuir Monolayers Composed of Bifunctional Amphiphilic, Twisted Perylenes. *Langmuir*, **2021**, 37, 11018-11026	4	3
162	Unveiling the interaction of protein fibrils with gold nanoparticles by plasmon enhanced nano-spectroscopy. *Nanoscale*, **2021**, 13, 14469-14479	7.7	5
161	Direct molecular-level near-field plasmon and temperature assessment in a single plasmonic hotspot. *Light: Science and Applications*, **2020**, 9, 35	16.7	29
160	Multimodal Characterization of Resin Embedded and Sliced Polymer Nanoparticles by Means of Tip-Enhanced Raman Spectroscopy and Force-Distance Curve Based Atomic Force Microscopy. *Small*, **2020**, 16, e1907418	11	5
159	Surface characterization of nanoscale co-crystals enabled through tip enhanced Raman spectroscopy. *Nanoscale*, **2020**, 12, 10306-10319	7.7	7
158	The chemical effect goes resonant - a full quantum mechanical approach on TERS. *Nanoscale*, **2020**, 12, 6346-6359	7.7	15
157	Plasmon induced deprotonation of 2-mercaptopyridine. *Analyst, The*, **2020**, 145, 2106-2110	5	5
156	Near- and far-field Raman spectroscopic studies of nanodiamond composite films deposited by coaxial arc plasma. *Applied Physics Letters*, **2020**, 116, 041601	3.4	8
155	A fiber optic nanophotonic approach to the detection of antibodies and viral particles of COVID-19. *Nanophotonics*, **2020**, 10, 235-246	6.3	6
154	Enhancing sensitivity of lateral flow assay with application to SARS-CoV-2. *Applied Physics Letters*, **2020**, 117, 120601	3.4	19
153	Laser spectroscopic technique for direct identification of a single virus I: FASTER CARS. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 27820-27824	11.5	14
152	Organic acids, siderophores, enzymes and mechanical pressure for black slate bioweathering with the basidiomycete Schizophyllum commune. *Environmental Microbiology*, **2020**, 22, 1535-1546	5.2	14

151	Present and Future of Surface-Enhanced Raman Scattering. *ACS Nano*, **2020**, 14, 28-117	16.7	1000
150	Arylic versus Alkylic-Hydrophobic Linkers Determine the Supramolecular Structure and Optoelectronic Properties of Tripodal Amphiphilic Push-Pull Thiazoles. *Langmuir*, **2019**, 35, 2561-2570	4	11
149	Synergy of Photoinduced Force Microscopy and Tip-Enhanced Raman Spectroscopy□A Correlative Study on MoS2. *ACS Photonics*, **2019**, 6, 1191-1198	6.3	8
148	Reactivity and Bio Samples Probed by Tip-Enhanced Raman Spectroscopy **2019**, 71-108		
147	Tip-Enhanced Raman Imaging of Single-Stranded DNA with Single Base Resolution. *Journal of the American Chemical Society*, **2019**, 141, 753-757	16.4	81
146	Latest instrumental developments and bioanalytical applications in tip-enhanced Raman spectroscopy. *TrAC - Trends in Analytical Chemistry*, **2018**, 102, 250-258	14.6	19
145	Uptake of fatty acids by a single endothelial cell investigated by Raman spectroscopy supported by AFM. *Analyst, The*, **2018**, 143, 970-980	5	19
144	Protein Handshake on the Nanoscale: How Albumin and Hemoglobin Self-Assemble into Nanohybrid Fibers. *ACS Nano*, **2018**, 12, 1211-1219	16.7	24
143	Plasmon response evaluation based on image-derived arbitrary nanostructures. *Nanoscale*, **2018**, 10, 9830-9839	7.7	14
142	Plasmon induced polymerization using a TERS approach: a platform for nanostructured 2D/1D material production. *Faraday Discussions*, **2017**, 205, 213-226	3.6	14
141	Tip-enhanced Raman spectroscopy - from early developments to recent advances. *Chemical Society Reviews*, **2017**, 46, 4077-4110	58.5	139
140	(Sub)picosecond processes in DNA and RNA constituents: a Raman spectroscopic assessment. *Polymer Bulletin*, **2017**, 74, 4087-4100	2.4	1
139	A classical description of subnanometer resolution by atomic features in metallic structures. *Nanoscale*, **2017**, 9, 391-401	7.7	95
138	On the Control of Chromophore Orientation, Supramolecular Structure, and Thermodynamic Stability of an Amphiphilic Pyridyl-Thiazol upon Lateral Compression and Spacer Length Variation. *ACS Applied Materials & Interfaces*, **2017**, 9, 44181-44191	9.5	19
137	Ultrasensitive and towards single molecule SERS: general discussion. *Faraday Discussions*, **2017**, 205, 291-330	3.6	9
136	Analytical SERS: general discussion. *Faraday Discussions*, **2017**, 205, 561-600	3.6	9
135	Theory of SERS enhancement: general discussion. *Faraday Discussions*, **2017**, 205, 173-211	3.6	21
134	Mastering high resolution tip-enhanced Raman spectroscopy: towards a shift of perception. *Chemical Society Reviews*, **2017**, 46, 3922-3944	58.5	108

133	Tip-enhanced Raman scattering for tracking of invasomes in the stratum corneum. *Biochimica Et Biophysica Acta - General Subjects*, **2017**, 1861, 2630-2639	4	12
132	High-resolution Raman Spectroscopy for the Nanostructural Characterization of Explosive Nanodiamond Precursors. *ChemPhysChem*, **2017**, 18, 175-178	3.2	6
131	Molecular Relaxation Processes in Nucleic Acids Components as Probed with Raman Spectroscopy. *Revista De Chimie (discontinued)*, **2017**, 68,	1.8	2
130	Secondary Structure and Glycosylation of Mucus Glycoproteins by Raman Spectroscopies. *Analytical Chemistry*, **2016**, 88, 11609-11615	7.8	32
129	Surface enhanced Raman scattering based reaction monitoring of in vitro decyclization of creatinine -¤creatine. *RSC Advances*, **2016**, 6, 58943-58949	3.7	8
128	Surface-enhanced Raman scattering characteristics of CuO : Mn/Ag heterojunction probed by methyl orange: effect of Mn2+ doping. *Journal of Raman Spectroscopy*, **2016**, 47, 813-818	2.3	24
127	High precision attachment of silver nanoparticles on AFM tips by dielectrophoresis. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 3625-31	4.4	17
126	Detection of Protein Glycosylation Using Tip-Enhanced Raman Scattering. *Analytical Chemistry*, **2016**, 88, 2105-12	7.8	34
125	Spatially resolved spectroscopic differentiation of hydrophilic and hydrophobic domains on individual insulin amyloid fibrils. *Scientific Reports*, **2016**, 6, 33575	4.9	44
124	High resolution spectroscopy reveals fibrillation inhibition pathways of insulin. *Scientific Reports*, **2016**, 6, 39622	4.9	19
123	Single particle analysis of herpes simplex virus: comparing the dimensions of one and the same virions via atomic force and scanning electron microscopy. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 4035-41	4.4	4
122	Spatial resolution of tip-enhanced Raman spectroscopy - DFT assessment of the chemical effect. *Nanoscale*, **2016**, 8, 10229-39	7.7	49
121	Polymorphism of amyloid fibrils formed by a peptide from the yeast prion protein Sup35: AFM and Tip-Enhanced Raman Scattering studies. *Ultramicroscopy*, **2016**, 165, 26-33	3.1	23
120	Tip-Enhanced Raman Spectroscopy of Atmospherically Relevant Aerosol Nanoparticles. *Analytical Chemistry*, **2016**, 88, 9766-9772	7.8	31
119	Multimodal Spectroscopic Study of Amyloid Fibril Polymorphism. *Journal of Physical Chemistry B*, **2016**, 120, 8809-17	3.4	21
118	Photo-Induced or Plasmon-Induced Reaction: Investigation of the Light-Induced Azo-Coupling of Amino Groups. *Journal of Physical Chemistry C*, **2016**, 120, 20978-20983	3.8	31
117	Aqueous black colloids of reticular nanostructured gold. *Scientific Reports*, **2015**, 5, 7899	4.9	
116	Tip-enhanced Raman scattering--Targeting structure-specific surface characterization for biomedical samples. *Advanced Drug Delivery Reviews*, **2015**, 89, 42-56	18.5	32

115	Spatial resolution in Raman spectroscopy. *Faraday Discussions*, **2015**, 177, 9-20	3.6	36
114	Surface- and tip-enhanced Raman spectroscopy reveals spin-waves in iron oxide nanoparticles. *Nanoscale*, **2015**, 7, 9545-51	7.7	36
113	Chemo-spectroscopic sensor for carboxyl terminus overexpressed in carcinoma cell membrane. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2015**, 11, 1831-9	6	6
112	Single molecule level plasmonic catalysis dilution study of p-nitrothiophenol on gold dimers. *Chemical Communications*, **2015**, 51, 3069-72	5.8	75
111	Future challenges: general discussion. *Faraday Discussions*, **2015**, 177, 517-45	3.6	3
110	Raman spectroscopic approach to monitor the in vitro cyclization of creatine-creatinine. *Chemical Physics Letters*, **2015**, 618, 225-230	2.5	9
109	Amyloid Fibrils: Nanoscale Heterogeneity of the Molecular Structure of Individual hIAPP Amyloid Fibrils Revealed with Tip-Enhanced Raman Spectroscopy (Small 33/2015). *Small*, **2015**, 11, 4130-4130	11	
108	Nanoscale Heterogeneity of the Molecular Structure of Individual hIAPP Amyloid Fibrils Revealed with Tip-Enhanced Raman Spectroscopy. *Small*, **2015**, 11, 4131-9	11	59
107	Dielectrophoretic positioning of single nanoparticles on atomic force microscope tips for tip-enhanced Raman spectroscopy. *Electrophoresis*, **2015**, 36, 1142-8	3.6	16
106	Label-free monitoring of plasmonic catalysis on the nanoscale. *Analyst, The*, **2015**, 140, 4325-35	5	33
105	Dynamics of chemical bond: general discussion. *Faraday Discussions*, **2015**, 177, 121-54	3.6	8
104	Exploring the Nanoscale: Fifteen Years of Tip-Enhanced Raman Spectroscopy. *Applied Spectroscopy*, **2015**, 69, 1357-71	3.1	57
103	Surface enhanced Raman scattering investigation of two novel piperazine carbodithioic acids adsorbed on Ag and ZnO nanoparticles. *RSC Advances*, **2015**, 5, 5571-5579	3.7	7
102	A manual and an automatic TERS based virus discrimination. *Nanoscale*, **2015**, 7, 4545-52	7.7	30
101	Magnetic apatite for structural insights on the plasma membrane. *Nanotechnology*, **2015**, 26, 035601	3.4	
100	Differences in single and aggregated nanoparticle plasmon spectroscopy. *Physical Chemistry Chemical Physics*, **2015**, 17, 2991-5	3.6	15
99	Surface characterization of insulin protofilaments and fibril polymorphs using tip-enhanced Raman spectroscopy (TERS). *Biophysical Journal*, **2014**, 106, 263-71	2.9	60
98	Spectroscopic Imaging of Biological Samples Using Near-Field Methods **2014**, 477-512		1

97	Local protonation control using plasmonic activation. *Chemical Communications*, **2014**, 50, 11204-7	5.8	20
96	In vitro monitoring of ring opening of leflunomide: A surface enhanced Raman scattering and DFT based approach. *Chemical Physics Letters*, **2014**, 613, 127-132	2.5	9
95	Single virus detection by means of atomic force microscopy in combination with advanced image analysis. *Journal of Structural Biology*, **2014**, 188, 30-8	3.4	12
94	A modified transmission tip-enhanced Raman scattering (TERS) setup provides access to opaque samples. *Applied Spectroscopy*, **2014**, 68, 916-9	3.1	14
93	Label-free in vitro visualization and characterization of caveolar bulbs during stimulated re-epithelialization. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 6993-7002	4.4	6
92	Structural Characterization of Insulin Fibril Surfaces using Tip Enhanced Raman Spectroscopy (TERS). *Biophysical Journal*, **2013**, 104, 49a	2.9	6
91	Distinguishing chemical and electromagnetic enhancement in surface-enhanced Raman spectra: The case of para-nitrothiophenol. *Journal of Raman Spectroscopy*, **2013**, 44, 1497-1505	2.3	28
90	Amyloids: From molecular structure to mechanical properties. *Polymer*, **2013**, 54, 2473-2488	3.9	69
89	Amide I vibrational mode suppression in surface (SERS) and tip (TERS) enhanced Raman spectra of protein specimens. *Analyst, The*, **2013**, 138, 1665-73	5	109
88	Catalytic processes monitored at the nanoscale with tip-enhanced Raman spectroscopy. *Nature Nanotechnology*, **2012**, 7, 583-6	28.7	489
87	Structure and composition of insulin fibril surfaces probed by TERS. *Journal of the American Chemical Society*, **2012**, 134, 13323-9	16.4	127
86	Detection of nano-oxidation sites on the surface of hemoglobin crystals using tip-enhanced Raman scattering. *Nano Letters*, **2012**, 12, 1555-60	11.5	54
85	Advances in TERS (tip-enhanced Raman scattering) for biochemical applications. *Biochemical Society Transactions*, **2012**, 40, 609-14	5.1	67
84	Bioanalytical application of surface- and tip-enhanced Raman spectroscopy. *Engineering in Life Sciences*, **2012**, 12, 131-143	3.4	60
83	Nanoscale distinction of membrane patches--a TERS study of Halobacterium salinarum. *Journal of Biophotonics*, **2012**, 5, 582-91	3.1	21
82	Tracking of nanoscale structural variations on a single amyloid fibril with tip-enhanced Raman scattering. *Journal of Biophotonics*, **2012**, 5, 215-9	3.1	78
81	Raman Spectroscopy: Principles, Bene.ts, and Applications **2012**, 419-444		1
80	Visualization and characterisation of defined hair follicle compartments by Fourier transform infrared (FTIR) imaging without labelling. *Journal of Dermatological Science*, **2011**, 63, 191-8	4.3	13

79	Tip-enhanced Raman scattering (TERS) from hemozoin crystals within a sectioned erythrocyte. *Nano Letters*, **2011**, 11, 1868-73	11.5	113
78	Scanning Near-Field Optical Microscopy (SNOM) **2011**, 481-497		2
77	Polymorphism of Amyloid Fibrils Formed by a Short Peptide from Yeast Prion Protein Sup35: AFM and Tip Enhanced Raman Scattering Study. *Biophysical Journal*, **2011**, 100, 539a	2.9	2
76	Distinction of nucleobases - a tip-enhanced Raman approach. *Beilstein Journal of Nanotechnology*, **2011**, 2, 628-37	3	83
75	Nanoscale structural analysis using tip-enhanced Raman spectroscopy. *Current Opinion in Chemical Biology*, **2011**, 15, 719-24	9.7	38
74	Laterally resolved and direct spectroscopic evidence of nanometer-sized lipid and protein domains on a single cell. *Small*, **2011**, 7, 209-14	11	63
73	Characterizing cytochrome c states--TERS studies of whole mitochondria. *Chemical Communications* , **2011**, 47, 11453-5	5.8	49
72	Multivariate Analysis of TERS Maps On A Single Human Colon Cancer Cell **2010**,		1
71	Biomedical imaging by means of linear and non-linear Raman microspectroscopy **2010**,		1
70	Label free investigation of biomolecules on the nanometer scale using tip-enhanced Raman spectroscopy **2010**,		1
69	Nanoimaging for prion related diseases. *Prion*, **2010**, 4, 265-74	2.3	17
68	Tip-enhanced Raman scattering (TERS) and high-resolution bio nano-analysis--a comparison. *Physical Chemistry Chemical Physics*, **2010**, 12, 12040-9	3.6	49
67	Applications of modern micro-Raman spectroscopy for cell analyses. *Integrative Biology (United Kingdom)*, **2010**, 2, 94-101	3.7	39
66	Aromatic Amino Acid Monolayers Sandwiched between Gold and Silver: A Combined Tip-Enhanced Raman and Theoretical Approach. *Journal of Physical Chemistry C*, **2010**, 114, 7412-7420	3.8	53
65	Separation of CARS image contributions with a Gaussian mixture model. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2010**, 27, 1361-71	1.8	15
64	Micro-Raman detection of nuclear membrane lipid fluctuations in senescent epithelial breast cancer cells. *Analytical Chemistry*, **2010**, 82, 4259-63	7.8	34
63	Biochemical imaging below the diffraction limit--probing cellular membrane related structures by tip-enhanced Raman spectroscopy (TERS). *Journal of Biophotonics*, **2010**, 3, 455-61	3.1	62
62	Recent advances in single-molecule sequencing. *Current Opinion in Biotechnology*, **2010**, 21, 4-11	11.4	46

61	Zn2+DNA interactions in aqueous systems: A Raman spectroscopic study. *Spectroscopy*, **2009**, 23, 155-163		15
60	Raman to the limit: tip-enhanced Raman spectroscopic investigations of a single tobacco mosaic virus. *Journal of Raman Spectroscopy*, **2009**, 40, 240-243	2.3	147
59	Tip-enhanced Raman scattering studies of histidine on novel silver substrates. *Journal of Raman Spectroscopy*, **2009**, 40, 1446-1451	2.3	43
58	Towards a specific characterisation of components on a cell surfaceombined TERS-investigations of lipids and human cells. *Journal of Raman Spectroscopy*, **2009**, 40, 1452-1457	2.3	90
57	Tip-Enhanced Raman Spectroscopy. *Journal of Raman Spectroscopy*, **2009**, 40, 1336-1337	2.3	45
56	Untersuchung von Flsig-flsig-Phasengrenzen mit ortsauflender NMR-Spektroskopie. *Angewandte Chemie*, **2009**, 121, 6461-6463	3.6	
55	Probing liquid-liquid interfaces with spatially resolved NMR spectroscopy. *Angewandte Chemie - International Edition*, **2009**, 48, 6343-5	16.4	20
54	Surface-enhanced Raman scattering as a tool to probe cytochrome P450-catalysed substrate oxidation. *Analytical and Bioanalytical Chemistry*, **2009**, 394, 1797-801	4.4	7
53	Ultraflat transparent gold nanoplates--ideal substrates for tip-enhanced Raman scattering experiments. *Small*, **2009**, 5, 432-6	11	97
52	Transparent silver microcrystals: synthesis and application for nanoscale analysis. *Langmuir*, **2009**, 25, 6032-4	4	17
51	Impact of fixation on in vitro cell culture lines monitored with Raman spectroscopy. *Analyst, The*, **2009**, 134, 1154-61	5	61
50	Isotachophoretic free-flow electrophoretic focusing and SERS detection of myoglobin inside a miniaturized device. *Analyst, The*, **2009**, 134, 38-40	5	42
49	Tip-enhanced Raman scattering (TERS) of oxidised glutathione on an ultraflat gold nanoplate. *Physical Chemistry Chemical Physics*, **2009**, 11, 7360-2	3.6	56
48	Tip-enhanced Raman scattering. *Chemical Society Reviews*, **2008**, 37, 921-30	58.5	344
47	Chemical and structural changes of quartz surfaces due to structuring by laser-induced backside wet etching. *Physical Chemistry Chemical Physics*, **2008**, 10, 3195-202	3.6	11
46	Force microscopy analysis using chemometric tools. *Analytical and Bioanalytical Chemistry*, **2008**, 390, 1253-60	4.4	1
45	Raman spectroscopy at the beginning of the twenty-first century II. *Journal of Raman Spectroscopy*, **2008**, 39, 1508-1511	2.3	7
44	Perspectives for spatially resolved molecular spectroscopy--Raman on the nanometer scale. *Journal of Biophotonics*, **2008**, 1, 377-89	3.1	25

43	Tip-enhanced Raman spectroscopy of single RNA strands: towards a novel direct-sequencing method. *Angewandte Chemie - International Edition*, **2008**, 47, 1658-61	16.4	262
42	Cover Picture: Tip-Enhanced Raman Spectroscopy of Single RNA Strands: Towards a Novel Direct-Sequencing Method (Angew. Chem. Int. Ed. 9/2008). *Angewandte Chemie - International Edition*, **2008**, 47, 1525-1525	16.4	1
41	Spitzenverstärkte Raman-Spektroskopie an RNA-Einzelsträngen: Vorschlag für eine direkte Sequenzierungsmethode. *Angewandte Chemie*, **2008**, 120, 1682-1685	3.6	12
40	Cell wall investigations utilizing tip-enhanced Raman scattering. *Journal of Microscopy*, **2008**, 229, 533-9	1.9	60
39	Towards a detailed understanding of bacterial metabolism--spectroscopic characterization of Staphylococcus epidermidis. *ChemPhysChem*, **2007**, 8, 124-37	3.2	167
38	On the way to nanometer-sized information of the bacterial surface by tip-enhanced Raman spectroscopy. *ChemPhysChem*, **2006**, 7, 1428-30	3.2	155
37	Surface- and tip-enhanced Raman scattering of DNA components. *Journal of Raman Spectroscopy*, **2006**, 37, 311-317	2.3	174
36	Tip-enhanced Raman scattering of a DNA binding compound **2006**, 6093, 242		1
35	Molekülspektroskopie auf der Nanometerskala. *Nachrichten Aus Der Chemie*, **2006**, 54, 999-1002	0.1	
34	Investigation of the liquid–liquid interface with high spatial resolution using near-field Raman spectroscopy. *Chemical Physics Letters*, **2006**, 417, 452-456	2.5	28
33	Konzentrationsmessung von Feststoffkomponenten in Rauchgasen auf Basis der Raman-Spektroskopie. *Chemie-Ingenieur-Technik*, **2005**, 77, 1937-1941	0.8	
32	New dimension in nano-imaging: breaking through the diffraction limit with scanning near-field optical microscopy. *Analytical and Bioanalytical Chemistry*, **2005**, 381, 165-72	4.4	60
31	Covalent binding of biorecognition groups to solids using poly(hydromethylsiloxane) as linkage. *Talanta*, **2004**, 63, 159-65	6.2	2
30	Evanescent wave scattering and local electric field enhancement at ellipsoidal silver particles in the vicinity of a glass surface. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2004**, 21, 1362-7	1.8	40
29	A near-field optical method for probing liquid–liquid interfaces. *Chemical Physics Letters*, **2003**, 380, 47-53	2.5	23
28	Looking at the nanoscale: scanning near-field optical microscopy. *TrAC - Trends in Analytical Chemistry*, **2003**, 22, 70-77	14.6	36
27	Towards in situ Raman Microscopy of Single Catalytic Sites. *Applied Spectroscopy*, **2002**, 56, 192-199	3.1	40
26	Application of principal component analysis to detect outliers and spectral deviations in near-field surface-enhanced Raman spectra. *Analytica Chimica Acta*, **2001**, 446, 71-83	6.6	39

25	Nanoscale atmospheric pressure laser ablation-mass spectrometry. *Analytical Chemistry*, **2001**, 73, 1399-1402	7.8	101
24	Optische Nahfeldmikroskopie und -spektroskopie als Werkzeug in der chemischen Analytik. *Angewandte Chemie*, **2000**, 112, 1814-1825	3.6	5
23	Scanning Near-Field Optical Microscopy and Spectroscopy as a Tool for Chemical Analysis. *Angewandte Chemie - International Edition*, **2000**, 39, 1746-1756	16.4	42
22	Vibrational dephasing and the Raman non-coincidence effect of CHBr3 in isotopic dilution. *Journal of Raman Spectroscopy*, **2000**, 31, 805-811	2.3	20
21	Isotopic dilution study of self association in (CH3CN+CD3CN) mixture by scanning multichannel Raman difference technique and ab-initio calculations. *Chemical Physics Letters*, **2000**, 326, 123-128	2.5	24
20	Nanoscale chemical analysis by tip-enhanced Raman spectroscopy. *Chemical Physics Letters*, **2000**, 318, 131-136	2.5	1225
19	Sub-wavelength Raman spectroscopy on isolated silver islands. *Vibrational Spectroscopy*, **2000**, 22, 39-48	2.1	25
18	Controlled Formation of Isolated Silver Islands for Surface-Enhanced Raman Scattering. *Applied Spectroscopy*, **2000**, 54, 1577-1583	3.1	59
17	Scanning near-field optical microscopy with aperture probes: Fundamentals and applications. *Journal of Chemical Physics*, **2000**, 112, 7761-7774	3.9	545
16	High-quality near-field optical probes by tube etching. *Applied Physics Letters*, **1999**, 75, 160-162	3.4	243
15	Brighter near-field optical probes by means of improving the optical destruction threshold. *Journal of Microscopy*, **1999**, 194, 378-82	1.9	28
14	Near-field surface-enhanced Raman spectroscopy of dye molecules adsorbed on silver island films. *Chemical Physics Letters*, **1998**, 283, 381-385	2.5	128
13	Laser-deposited silver island films: an investigation of their structure, optical properties and SERS activity. *Journal of Raman Spectroscopy*, **1998**, 29, 693-702	2.3	34
12	Near-Field Surface-Enhanced Raman Imaging of Dye-Labeled DNA with 100-nm Resolution. *Analytical Chemistry*, **1998**, 70, 2646-50	7.8	158
11	Optical Spectroscopy and Laser Desorption on a Nanometer Scale. *Analytical Chemistry*, **1997**, 69, 749-754	7.8	64
10	Laser-Induced Ablation through Nanometer-Sized Tip Apertures: Mechanistic Aspects *Journal of Physical Chemistry B*, **1997**, 101, 6955-6959	3.4	34
9	New Device for Raman Difference Spectroscopy with Multichannel and Scanning Multichannel Detection. *Applied Spectroscopy*, **1997**, 51, 939-943	3.1	12
8	Dimer and Trimer in Pyridine-Ethanol Mixture Reinvestigated Applying the Scanning Multi-Channel Raman Difference Technique and AM1 Molecular Orbital Calculations. *Journal of Raman Spectroscopy*, **1996**, 27, 907-913	2.3	38

7	The exchange polarization model of photoisomerization: A rationale for profound solvent effects on photoisomerization of trans-stilbene and all-trans retinal. *Journal of Photochemistry and Photobiology A: Chemistry*, **1996**, 102, 35-38	4.7	23
6	Raman spectra of ditertiary phosphines Ph2P-(CH2)n-PPh2 (n = 1–4) and coordination shifts in (CO)4Mo[Ph2P-(CH2)n-PPh2] (n = 1, 2). *Vibrational Spectroscopy*, **1994**, 7, 49-60	2.1	7
5	Electronic Raman scattering from halogen atoms in the gaseous phase. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1994**, 187, 317-321	2.3	3
4	Design and Performance Characteristics of a Near-Infrared Scanning Multichannel Raman Spectrometer. *Applied Spectroscopy*, **1994**, 48, 933-936	3.1	18
3	Scanning Multichannel Technique for Improved Spectrochemical Measurements with a CCD Camera and its Application to Raman Spectroscopy. *Applied Spectroscopy*, **1992**, 46, 322-328	3.1	79
2	Continuum resonance Raman scattering in isotopically pure 127I79Br. *Journal of Raman Spectroscopy*, **1992**, 23, 365-372	2.3	6
1	Synthesis and Nanoscale Characterization of Hierarchically Assembled Molecular Nanosheets. *Advanced Materials Interfaces*,2102389	4.6	