

# Volker Deckert

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Nanoscale chemical analysis by tip-enhanced Raman spectroscopy. <i>Chemical Physics Letters</i> , <b>2000</b> , 318, 131-136	2.5	1225
167	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , <b>2020</b> , 14, 28-117	16.7	1000
166	Scanning near-field optical microscopy with aperture probes: Fundamentals and applications. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 7761-7774	3.9	545
165	Catalytic processes monitored at the nanoscale with tip-enhanced Raman spectroscopy. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 583-6	28.7	489
164	Tip-enhanced Raman scattering. <i>Chemical Society Reviews</i> , <b>2008</b> , 37, 921-30	58.5	344
163	Tip-enhanced Raman spectroscopy of single RNA strands: towards a novel direct-sequencing method. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 1658-61	16.4	262
162	High-quality near-field optical probes by tube etching. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 160-162	3.4	243
161	Surface- and tip-enhanced Raman scattering of DNA components. <i>Journal of Raman Spectroscopy</i> , <b>2006</b> , 37, 311-317	2.3	174
160	Towards a detailed understanding of bacterial metabolism--spectroscopic characterization of <i>Staphylococcus epidermidis</i> . <i>ChemPhysChem</i> , <b>2007</b> , 8, 124-37	3.2	167
159	Near-Field Surface-Enhanced Raman Imaging of Dye-Labeled DNA with 100-nm Resolution. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 2646-50	7.8	158
158	On the way to nanometer-sized information of the bacterial surface by tip-enhanced Raman spectroscopy. <i>ChemPhysChem</i> , <b>2006</b> , 7, 1428-30	3.2	155
157	Raman to the limit: tip-enhanced Raman spectroscopic investigations of a single tobacco mosaic virus. <i>Journal of Raman Spectroscopy</i> , <b>2009</b> , 40, 240-243	2.3	147
156	Tip-enhanced Raman spectroscopy - from early developments to recent advances. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 4077-4110	58.5	139
155	Near-field surface-enhanced Raman spectroscopy of dye molecules adsorbed on silver island films. <i>Chemical Physics Letters</i> , <b>1998</b> , 283, 381-385	2.5	128
154	Structure and composition of insulin fibril surfaces probed by TERS. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13323-9	16.4	127
153	Tip-enhanced Raman scattering (TERS) from hemozoin crystals within a sectioned erythrocyte. <i>Nano Letters</i> , <b>2011</b> , 11, 1868-73	11.5	113
152	Amide I vibrational mode suppression in surface (SERS) and tip (TERS) enhanced Raman spectra of protein specimens. <i>Analyst, The</i> , <b>2013</b> , 138, 1665-73	5	109

151	Mastering high resolution tip-enhanced Raman spectroscopy: towards a shift of perception. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 3922-3944	58.5	108
150	Nanoscale atmospheric pressure laser ablation-mass spectrometry. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 1399-1402	7.8	101
149	Ultraflat transparent gold nanoplates--ideal substrates for tip-enhanced Raman scattering experiments. <i>Small</i> , <b>2009</b> , 5, 432-6	11	97
148	A classical description of subnanometer resolution by atomic features in metallic structures. <i>Nanoscale</i> , <b>2017</b> , 9, 391-401	7.7	95
147	Towards a specific characterisation of components on a cell surface--combined TERS-investigations of lipids and human cells. <i>Journal of Raman Spectroscopy</i> , <b>2009</b> , 40, 1452-1457	2.3	90
146	Distinction of nucleobases - a tip-enhanced Raman approach. <i>Beilstein Journal of Nanotechnology</i> , <b>2011</b> , 2, 628-37	3	83
145	Tip-Enhanced Raman Imaging of Single-Stranded DNA with Single Base Resolution. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 753-757	16.4	81
144	Scanning Multichannel Technique for Improved Spectrochemical Measurements with a CCD Camera and its Application to Raman Spectroscopy. <i>Applied Spectroscopy</i> , <b>1992</b> , 46, 322-328	3.1	79
143	Tracking of nanoscale structural variations on a single amyloid fibril with tip-enhanced Raman scattering. <i>Journal of Biophotonics</i> , <b>2012</b> , 5, 215-9	3.1	78
142	Single molecule level plasmonic catalysis in a dilution study of p-nitrothiophenol on gold dimers. <i>Chemical Communications</i> , <b>2015</b> , 51, 3069-72	5.8	75
141	Amyloids: From molecular structure to mechanical properties. <i>Polymer</i> , <b>2013</b> , 54, 2473-2488	3.9	69
140	Advances in TERS (tip-enhanced Raman scattering) for biochemical applications. <i>Biochemical Society Transactions</i> , <b>2012</b> , 40, 609-14	5.1	67
139	Optical Spectroscopy and Laser Desorption on a Nanometer Scale. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 749-754	7.48	64
138	Laterally resolved and direct spectroscopic evidence of nanometer-sized lipid and protein domains on a single cell. <i>Small</i> , <b>2011</b> , 7, 209-14	11	63
137	Biochemical imaging below the diffraction limit--probing cellular membrane related structures by tip-enhanced Raman spectroscopy (TERS). <i>Journal of Biophotonics</i> , <b>2010</b> , 3, 455-61	3.1	62
136	Impact of fixation on in vitro cell culture lines monitored with Raman spectroscopy. <i>Analyst, The</i> , <b>2009</b> , 134, 1154-61	5	61
135	Surface characterization of insulin protofilaments and fibril polymorphs using tip-enhanced Raman spectroscopy (TERS). <i>Biophysical Journal</i> , <b>2014</b> , 106, 263-71	2.9	60
134	Bioanalytical application of surface- and tip-enhanced Raman spectroscopy. <i>Engineering in Life Sciences</i> , <b>2012</b> , 12, 131-143	3.4	60

133	Cell wall investigations utilizing tip-enhanced Raman scattering. <i>Journal of Microscopy</i> , <b>2008</b> , 229, 533-9	1.9	60
132	New dimension in nano-imaging: breaking through the diffraction limit with scanning near-field optical microscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2005</b> , 381, 165-72	4.4	60
131	Nanoscale Heterogeneity of the Molecular Structure of Individual hIAPP Amyloid Fibrils Revealed with Tip-Enhanced Raman Spectroscopy. <i>Small</i> , <b>2015</b> , 11, 4131-9	11	59
130	Controlled Formation of Isolated Silver Islands for Surface-Enhanced Raman Scattering. <i>Applied Spectroscopy</i> , <b>2000</b> , 54, 1577-1583	3.1	59
129	Exploring the Nanoscale: Fifteen Years of Tip-Enhanced Raman Spectroscopy. <i>Applied Spectroscopy</i> , <b>2015</b> , 69, 1357-71	3.1	57
128	Tip-enhanced Raman scattering (TERS) of oxidised glutathione on an ultraflat gold nanoplate. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 7360-2	3.6	56
127	Detection of nano-oxidation sites on the surface of hemoglobin crystals using tip-enhanced Raman scattering. <i>Nano Letters</i> , <b>2012</b> , 12, 1555-60	11.5	54
126	Aromatic Amino Acid Monolayers Sandwiched between Gold and Silver: A Combined Tip-Enhanced Raman and Theoretical Approach. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 7412-7420	3.8	53
125	Tip-enhanced Raman scattering (TERS) and high-resolution bio nano-analysis--a comparison. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 12040-9	3.6	49
124	Characterizing cytochrome c states--TERS studies of whole mitochondria. <i>Chemical Communications</i> , <b>2011</b> , 47, 11453-5	5.8	49
123	Spatial resolution of tip-enhanced Raman spectroscopy - DFT assessment of the chemical effect. <i>Nanoscale</i> , <b>2016</b> , 8, 10229-39	7.7	49
122	Recent advances in single-molecule sequencing. <i>Current Opinion in Biotechnology</i> , <b>2010</b> , 21, 4-11	11.4	46
121	Tip-Enhanced Raman Spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2009</b> , 40, 1336-1337	2.3	45
120	Spatially resolved spectroscopic differentiation of hydrophilic and hydrophobic domains on individual insulin amyloid fibrils. <i>Scientific Reports</i> , <b>2016</b> , 6, 33575	4.9	44
119	Tip-enhanced Raman scattering studies of histidine on novel silver substrates. <i>Journal of Raman Spectroscopy</i> , <b>2009</b> , 40, 1446-1451	2.3	43
118	Isotachophoretic free-flow electrophoretic focusing and SERS detection of myoglobin inside a miniaturized device. <i>Analyst</i> , <b>2009</b> , 134, 38-40	5	42
117	Scanning Near-Field Optical Microscopy and Spectroscopy as a Tool for Chemical Analysis. <i>Angewandte Chemie - International Edition</i> , <b>2000</b> , 39, 1746-1756	16.4	42
116	Evanescent wave scattering and local electric field enhancement at ellipsoidal silver particles in the vicinity of a glass surface. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2004</b> , 21, 1362-7	1.8	40

115	Towards in situ Raman Microscopy of Single Catalytic Sites. <i>Applied Spectroscopy</i> , <b>2002</b> , 56, 192-199	3.1	40
114	Applications of modern micro-Raman spectroscopy for cell analyses. <i>Integrative Biology (United Kingdom)</i> , <b>2010</b> , 2, 94-101	3.7	39
113	Application of principal component analysis to detect outliers and spectral deviations in near-field surface-enhanced Raman spectra. <i>Analytica Chimica Acta</i> , <b>2001</b> , 446, 71-83	6.6	39
112	Nanoscale structural analysis using tip-enhanced Raman spectroscopy. <i>Current Opinion in Chemical Biology</i> , <b>2011</b> , 15, 719-24	9.7	38
111	Dimer and Trimer in Pyridine-Ethanol Mixture Reinvestigated Applying the Scanning Multi-Channel Raman Difference Technique and AM1 Molecular Orbital Calculations. <i>Journal of Raman Spectroscopy</i> , <b>1996</b> , 27, 907-913	2.3	38
110	Spatial resolution in Raman spectroscopy. <i>Faraday Discussions</i> , <b>2015</b> , 177, 9-20	3.6	36
109	Surface- and tip-enhanced Raman spectroscopy reveals spin-waves in iron oxide nanoparticles. <i>Nanoscale</i> , <b>2015</b> , 7, 9545-51	7.7	36
108	Looking at the nanoscale: scanning near-field optical microscopy. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2003</b> , 22, 70-77	14.6	36
107	Detection of Protein Glycosylation Using Tip-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 2105-12	7.8	34
106	Micro-Raman detection of nuclear membrane lipid fluctuations in senescent epithelial breast cancer cells. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 4259-63	7.8	34
105	Laser-Induced Ablation through Nanometer-Sized Tip Apertures: Mechanistic Aspects <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 6955-6959	3.4	34
104	Laser-deposited silver island films: an investigation of their structure, optical properties and SERS activity. <i>Journal of Raman Spectroscopy</i> , <b>1998</b> , 29, 693-702	2.3	34
103	Label-free monitoring of plasmonic catalysis on the nanoscale. <i>Analyst, The</i> , <b>2015</b> , 140, 4325-35	5	33
102	Tip-enhanced Raman scattering--Targeting structure-specific surface characterization for biomedical samples. <i>Advanced Drug Delivery Reviews</i> , <b>2015</b> , 89, 42-56	18.5	32
101	Secondary Structure and Glycosylation of Mucus Glycoproteins by Raman Spectroscopies. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 11609-11615	7.8	32
100	Tip-Enhanced Raman Spectroscopy of Atmospherically Relevant Aerosol Nanoparticles. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 9766-9772	7.8	31
99	Photo-Induced or Plasmon-Induced Reaction: Investigation of the Light-Induced Azo-Coupling of Amino Groups. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 20978-20983	3.8	31
98	A manual and an automatic TERS based virus discrimination. <i>Nanoscale</i> , <b>2015</b> , 7, 4545-52	7.7	30

97	Direct molecular-level near-field plasmon and temperature assessment in a single plasmonic hotspot. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 35	16.7	29
96	Distinguishing chemical and electromagnetic enhancement in surface-enhanced Raman spectra: The case of para-nitrothiophenol. <i>Journal of Raman Spectroscopy</i> , <b>2013</b> , 44, 1497-1505	2.3	28
95	Investigation of the liquid-liquid interface with high spatial resolution using near-field Raman spectroscopy. <i>Chemical Physics Letters</i> , <b>2006</b> , 417, 452-456	2.5	28
94	Brighter near-field optical probes by means of improving the optical destruction threshold. <i>Journal of Microscopy</i> , <b>1999</b> , 194, 378-82	1.9	28
93	Perspectives for spatially resolved molecular spectroscopy--Raman on the nanometer scale. <i>Journal of Biophotonics</i> , <b>2008</b> , 1, 377-89	3.1	25
92	Sub-wavelength Raman spectroscopy on isolated silver islands. <i>Vibrational Spectroscopy</i> , <b>2000</b> , 22, 39-48	2.1	25
91	Protein Handshake on the Nanoscale: How Albumin and Hemoglobin Self-Assemble into Nanohybrid Fibers. <i>ACS Nano</i> , <b>2018</b> , 12, 1211-1219	16.7	24
90	Surface-enhanced Raman scattering characteristics of CuO : Mn/Ag heterojunction probed by methyl orange: effect of Mn <sup>2+</sup> doping. <i>Journal of Raman Spectroscopy</i> , <b>2016</b> , 47, 813-818	2.3	24
89	Isotopic dilution study of self association in (CH <sub>3</sub> CN+CD <sub>3</sub> CN) mixture by scanning multichannel Raman difference technique and ab-initio calculations. <i>Chemical Physics Letters</i> , <b>2000</b> , 326, 123-128	2.5	24
88	A near-field optical method for probing liquid-liquid interfaces. <i>Chemical Physics Letters</i> , <b>2003</b> , 380, 47-53	2.5	23
87	The exchange polarization model of photoisomerization: A rationale for profound solvent effects on photoisomerization of trans-stilbene and all-trans retinal. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1996</b> , 102, 35-38	4.7	23
86	Polymorphism of amyloid fibrils formed by a peptide from the yeast prion protein Sup35: AFM and Tip-Enhanced Raman Scattering studies. <i>Ultramicroscopy</i> , <b>2016</b> , 165, 26-33	3.1	23
85	Theory of SERS enhancement: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 205, 173-211	3.6	21
84	Nanoscale distinction of membrane patches--a TERS study of Halobacterium salinarum. <i>Journal of Biophotonics</i> , <b>2012</b> , 5, 582-91	3.1	21
83	Multimodal Spectroscopic Study of Amyloid Fibril Polymorphism. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 8809-17	3.4	21
82	Local protonation control using plasmonic activation. <i>Chemical Communications</i> , <b>2014</b> , 50, 11204-7	5.8	20
81	Probing liquid-liquid interfaces with spatially resolved NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 6343-5	16.4	20
80	Vibrational dephasing and the Raman non-coincidence effect of CHBr <sub>3</sub> in isotopic dilution. <i>Journal of Raman Spectroscopy</i> , <b>2000</b> , 31, 805-811	2.3	20

79	Latest instrumental developments and bioanalytical applications in tip-enhanced Raman spectroscopy. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2018</b> , 102, 250-258	14.6	19
78	Uptake of fatty acids by a single endothelial cell investigated by Raman spectroscopy supported by AFM. <i>Analyst, The</i> , <b>2018</b> , 143, 970-980	5	19
77	On the Control of Chromophore Orientation, Supramolecular Structure, and Thermodynamic Stability of an Amphiphilic Pyridyl-Thiazol upon Lateral Compression and Spacer Length Variation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 44181-44191	9.5	19
76	Enhancing sensitivity of lateral flow assay with application to SARS-CoV-2. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 120601	3.4	19
75	High resolution spectroscopy reveals fibrillation inhibition pathways of insulin. <i>Scientific Reports</i> , <b>2016</b> , 6, 39622	4.9	19
74	Design and Performance Characteristics of a Near-Infrared Scanning Multichannel Raman Spectrometer. <i>Applied Spectroscopy</i> , <b>1994</b> , 48, 933-936	3.1	18
73	High precision attachment of silver nanoparticles on AFM tips by dielectrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 3625-31	4.4	17
72	Nanoimaging for prion related diseases. <i>Prion</i> , <b>2010</b> , 4, 265-74	2.3	17
71	Transparent silver microcrystals: synthesis and application for nanoscale analysis. <i>Langmuir</i> , <b>2009</b> , 25, 6032-4	4	17
70	Dielectrophoretic positioning of single nanoparticles on atomic force microscope tips for tip-enhanced Raman spectroscopy. <i>Electrophoresis</i> , <b>2015</b> , 36, 1142-8	3.6	16
69	The chemical effect goes resonant - a full quantum mechanical approach on TERS. <i>Nanoscale</i> , <b>2020</b> , 12, 6346-6359	7.7	15
68	Differences in single and aggregated nanoparticle plasmon spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 2991-5	3.6	15
67	Separation of CARS image contributions with a Gaussian mixture model. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2010</b> , 27, 1361-71	1.8	15
66	Zn <sup>2+</sup> +DNA interactions in aqueous systems: A Raman spectroscopic study. <i>Spectroscopy</i> , <b>2009</b> , 23, 155-163		15
65	Plasmon induced polymerization using a TERS approach: a platform for nanostructured 2D/1D material production. <i>Faraday Discussions</i> , <b>2017</b> , 205, 213-226	3.6	14
64	A modified transmission tip-enhanced Raman scattering (TERS) setup provides access to opaque samples. <i>Applied Spectroscopy</i> , <b>2014</b> , 68, 916-9	3.1	14
63	Laser spectroscopic technique for direct identification of a single virus I: FASTER CARS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 27820-27824	11.5	14
62	Organic acids, siderophores, enzymes and mechanical pressure for black slate bioweathering with the basidiomycete <i>Schizophyllum commune</i> . <i>Environmental Microbiology</i> , <b>2020</b> , 22, 1535-1546	5.2	14



61	Plasmon response evaluation based on image-derived arbitrary nanostructures. <i>Nanoscale</i> , <b>2018</b> , 10, 9830-9839	7.7	14
60	Visualization and characterisation of defined hair follicle compartments by Fourier transform infrared (FTIR) imaging without labelling. <i>Journal of Dermatological Science</i> , <b>2011</b> , 63, 191-8	4.3	13
59	Single virus detection by means of atomic force microscopy in combination with advanced image analysis. <i>Journal of Structural Biology</i> , <b>2014</b> , 188, 30-8	3.4	12
58	Tip-enhanced Raman scattering for tracking of invasomes in the stratum corneum. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2017</b> , 1861, 2630-2639	4	12
57	New Device for Raman Difference Spectroscopy with Multichannel and Scanning Multichannel Detection. <i>Applied Spectroscopy</i> , <b>1997</b> , 51, 939-943	3.1	12
56	Spitzenverstärkte Raman-Spektroskopie an RNA-Einzelsträngen: Vorschlag für eine direkte Sequenzierungsmethode. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 1682-1685	3.6	12
55	Arylic versus Alkyl-Hydrophobic Linkers Determine the Supramolecular Structure and Optoelectronic Properties of Tripodal Amphiphilic Push-Pull Thiazoles. <i>Langmuir</i> , <b>2019</b> , 35, 2561-2570	4	11
54	Chemical and structural changes of quartz surfaces due to structuring by laser-induced backside wet etching. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 3195-202	3.6	11
53	Raman spectroscopic approach to monitor the in vitro cyclization of creatine- <del>pre</del> creatinine. <i>Chemical Physics Letters</i> , <b>2015</b> , 618, 225-230	2.5	9
52	In vitro monitoring of ring opening of leflunomide: A surface enhanced Raman scattering and DFT based approach. <i>Chemical Physics Letters</i> , <b>2014</b> , 613, 127-132	2.5	9
51	Ultrasensitive and towards single molecule SERS: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 205, 291-330	3.6	9
50	Analytical SERS: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 205, 561-600	3.6	9
49	Synergy of Photoinduced Force Microscopy and Tip-Enhanced Raman Spectroscopy: A Correlative Study on MoS <sub>2</sub> . <i>ACS Photonics</i> , <b>2019</b> , 6, 1191-1198	6.3	8
48	Near- and far-field Raman spectroscopic studies of nanodiamond composite films deposited by coaxial arc plasma. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 041601	3.4	8
47	Surface enhanced Raman scattering based reaction monitoring of in vitro decyclization of creatinine - <del>pre</del> creatinine. <i>RSC Advances</i> , <b>2016</b> , 6, 58943-58949	3.7	8
46	Dynamics of chemical bond: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 177, 121-54	3.6	8
45	Surface characterization of nanoscale co-crystals enabled through tip enhanced Raman spectroscopy. <i>Nanoscale</i> , <b>2020</b> , 12, 10306-10319	7.7	7
44	Surface enhanced Raman scattering investigation of two novel piperazine carbodithioic acids adsorbed on Ag and ZnO nanoparticles. <i>RSC Advances</i> , <b>2015</b> , 5, 5571-5579	3.7	7



43	Surface-enhanced Raman scattering as a tool to probe cytochrome P450-catalysed substrate oxidation. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 394, 1797-801	4.4	7
42	Raman spectroscopy at the beginning of the twenty-first century II. <i>Journal of Raman Spectroscopy</i> , <b>2008</b> , 39, 1508-1511	2.3	7
41	Raman spectra of ditertiary phosphines Ph <sub>2</sub> P-(CH <sub>2</sub> ) <sub>n</sub> -PPh <sub>2</sub> (n = 1-4) and coordination shifts in (CO) <sub>4</sub> Mo[Ph <sub>2</sub> P-(CH <sub>2</sub> ) <sub>n</sub> -PPh <sub>2</sub> ] (n = 1, 2). <i>Vibrational Spectroscopy</i> , <b>1994</b> , 7, 49-60	2.1	7
40	Chemo-spectroscopic sensor for carboxyl terminus overexpressed in carcinoma cell membrane. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2015</b> , 11, 1831-9	6	6
39	Structural Characterization of Insulin Fibril Surfaces using Tip Enhanced Raman Spectroscopy (TERS). <i>Biophysical Journal</i> , <b>2013</b> , 104, 49a	2.9	6
38	High-resolution Raman Spectroscopy for the Nanostructural Characterization of Explosive Nanodiamond Precursors. <i>ChemPhysChem</i> , <b>2017</b> , 18, 175-178	3.2	6
37	Label-free in vitro visualization and characterization of caveolar bulbs during stimulated re-epithelialization. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 6993-7002	4.4	6
36	Continuum resonance Raman scattering in isotopically pure <sup>127</sup> I/ <sup>79</sup> Br. <i>Journal of Raman Spectroscopy</i> , <b>1992</b> , 23, 365-372	2.3	6
35	A fiber optic nanophotonic approach to the detection of antibodies and viral particles of COVID-19. <i>Nanophotonics</i> , <b>2020</b> , 10, 235-246	6.3	6
34	Multimodal Characterization of Resin Embedded and Sliced Polymer Nanoparticles by Means of Tip-Enhanced Raman Spectroscopy and Force-Distance Curve Based Atomic Force Microscopy. <i>Small</i> , <b>2020</b> , 16, e1907418	11	5
33	Plasmon induced deprotonation of 2-mercaptopyridine. <i>Analyst, The</i> , <b>2020</b> , 145, 2106-2110	5	5
32	Optische Nahfeldmikroskopie und -spektroskopie als Werkzeug in der chemischen Analytik. <i>Angewandte Chemie</i> , <b>2000</b> , 112, 1814-1825	3.6	5
31	Unveiling the interaction of protein fibrils with gold nanoparticles by plasmon enhanced nano-spectroscopy. <i>Nanoscale</i> , <b>2021</b> , 13, 14469-14479	7.7	5
30	Raman Spectroscopy and Imaging in Bioanalytics.. <i>Analytical Chemistry</i> , <b>2021</b> ,	7.8	4
29	Single particle analysis of herpes simplex virus: comparing the dimensions of one and the same virions via atomic force and scanning electron microscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 4035-41	4.4	4
28	Future challenges: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 177, 517-45	3.6	3
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26	Characterization of a library of vitamin A-functionalized polymethacrylate-based nanoparticles for siRNA delivery. <i>Polymer Chemistry</i> , <b>2021</b> , 12, 911-925	4.9	3

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