Volker Deckert

List of Publications by Year in descending order

182 papers	12,236 citations	38742 50 h-index	26613 107 g-index
193 all docs	193 docs citations	193 times ranked	9982 citing authors

#	Article	IF	Citations
1	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
2	Nanoscale chemical analysis by tip-enhanced Raman spectroscopy. Chemical Physics Letters, 2000, 318, 131-136.	2.6	1,418
3	Scanning near-field optical microscopy with aperture probes: Fundamentals and applications. Journal of Chemical Physics, 2000, 112, 7761-7774.	3.0	684
4	Catalytic processes monitored at the nanoscale with tip-enhanced Raman spectroscopy. Nature Nanotechnology, 2012, 7, 583-586.	31.5	570
5	Tip-enhanced Raman scattering. Chemical Society Reviews, 2008, 37, 921.	38.1	383
6	Tipâ€Enhanced Raman Spectroscopy of Single RNA Strands: Towards a Novel Directâ€Sequencing Method. Angewandte Chemie - International Edition, 2008, 47, 1658-1661.	13.8	291
7	High-quality near-field optical probes by tube etching. Applied Physics Letters, 1999, 75, 160-162.	3.3	275
8	Towards a Detailed Understanding of Bacterial Metabolismâ€"Spectroscopic Characterization ofStaphylococcus Epidermidis. ChemPhysChem, 2007, 8, 124-137.	2.1	201
9	Surface- and tip-enhanced Raman scattering of DNA components. Journal of Raman Spectroscopy, 2006, 37, 311-317.	2.5	192
10	Tip-enhanced Raman spectroscopy â€“ from early developments to recent advances. Chemical Society Reviews, 2017, 46, 4077-4110.	38.1	185
11	Near-Field Surface-Enhanced Raman Imaging of Dye-Labeled DNA with 100-nm Resolution. Analytical Chemistry, 1998, 70, 2646-2650.	6.5	183
12	On the Way to Nanometer-Sized Information of the Bacterial Surface by Tip-Enhanced Raman Spectroscopy. ChemPhysChem, 2006, 7, 1428-1430.	2.1	174
13	Raman to the limit: tipâ€enhanced Raman spectroscopic investigations of a single tobacco mosaic virus. Journal of Raman Spectroscopy, 2009, 40, 240-243.	2.5	162
14	Structure and Composition of Insulin Fibril Surfaces Probed by TERS. Journal of the American Chemical Society, 2012, 134, 13323-13329.	13.7	153
15	Near-field surface-enhanced Raman spectroscopy of dye molecules adsorbed on silver island films. Chemical Physics Letters, 1998, 283, 381-385.	2.6	148
16	Amide I vibrational mode suppression in surface (SERS) and tip (TERS) enhanced Raman spectra of protein specimens. Analyst, The, 2013, 138, 1665.	3.5	146
17	Mastering high resolution tip-enhanced Raman spectroscopy: towards a shift of perception. Chemical Society Reviews, 2017, 46, 3922-3944.	38.1	131
18	Tip-Enhanced Raman Scattering (TERS) from Hemozoin Crystals within a Sectioned Erythrocyte. Nano Letters, 2011, 11, 1868-1873.	9.1	126

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19	A classical description of subnanometer resolution by atomic features in metallic structures. Nanoscale, 2017, 9, 391-401.	5.6	108
20	Nanoscale Atmospheric Pressure Laser Ablation-Mass Spectrometry. Analytical Chemistry, 2001, 73, 1399-1402.	6.5	107
21	Towards a specific characterisation of components on a cell surfaceâ€"combined TERSâ€investigations of lipids and human cells. Journal of Raman Spectroscopy, 2009, 40, 1452-1457.	2.5	107
22	Ultraflat Transparent Gold Nanoplatesâ€"Ideal Substrates for Tipâ€Enhanced Raman Scattering Experiments. Small, 2009, 5, 432-436.	10.0	104
23	Tip-Enhanced Raman Imaging of Single-Stranded DNA with Single Base Resolution. Journal of the American Chemical Society, 2019, 141, 753-757.	13.7	102
24	Distinction of nucleobases â€“ a tip-enhanced Raman approach. Beilstein Journal of Nanotechnology, 2011, 2, 628-637.	2.8	92
25	Amyloids: From molecular structure to mechanical properties. Polymer, 2013, 54, 2473-2488.	3.8	89
26	Scanning Multichannel Technique for Improved Spectrochemical Measurements with a CCD Camera and its Application to Raman Spectroscopy. Applied Spectroscopy, 1992, 46, 322-328.	2.2	87
27	Tracking of nanoscale structural variations on a single amyloid fibril with tipâ€enhanced Raman scattering. Journal of Biophotonics, 2012, 5, 215-219.	2.3	86
28	Single molecule level plasmonic catalysis â€“ a dilution study of p-nitrothiophenol on gold dimers. Chemical Communications, 2015, 51, 3069-3072.	4.1	86
29	Surface Characterization of Insulin Protofilaments and Fibril Polymorphs Using Tip-Enhanced Raman Spectroscopy (TERS). Biophysical Journal, 2014, 106, 263-271.	0.5	82
30	Optical Spectroscopy and Laser Desorption on a Nanometer Scale. Analytical Chemistry, 1997, 69, 749-754.	6.5	77
31	Biochemical imaging below the diffraction limit â€“ probing cellular membrane related structures by tipâ€enhanced Raman spectroscopy (TERS). Journal of Biophotonics, 2010, 3, 455-461.	2.3	76
32	Advances in TERS (tip-enhanced Raman scattering) for biochemical applications. Biochemical Society Transactions, 2012, 40, 609-614.	3.4	75
33	Bioanalytical application of surfaceâ€and tipâ€enhanced <scp>R</scp>aman spectroscopy. Engineering in Life Sciences, 2012, 12, 131-143.	3.6	73
34	Laterally Resolved and Direct Spectroscopic Evidence of Nanometerâ€Sized Lipid and Protein Domains on a Single Cell. Small, 2011, 7, 209-214.	10.0	71
35	Nanoscale Heterogeneity of the Molecular Structure of Individual hIAPP Amyloid Fibrils Revealed with Tipâ€Enhanced Raman Spectroscopy. Small, 2015, 11, 4131-4139.	10.0	69
36	Impact of fixation on in vitro cell culture lines monitored with Raman spectroscopy. Analyst, The, 2009, 134, 1154.	3.5	68

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37	New dimension in nano-imaging: breaking through the diffraction limit with scanning near-field optical microscopy. Analytical and Bioanalytical Chemistry, 2005, 381, 165-172.	3.7	67
38	Cell wall investigations utilizing tip-enhanced Raman scattering. Journal of Microscopy, 2008, 229, 533-539.	1.8	64
39	Exploring the Nanoscale: Fifteen Years of Tip-Enhanced Raman Spectroscopy. Applied Spectroscopy, 2015, 69, 1357-1371.	2.2	64
40	Spatial resolution of tip-enhanced Raman spectroscopy â€“ DFT assessment of the chemical effect. Nanoscale, 2016, 8, 10229-10239.	5.6	64
41	Controlled Formation of Isolated Silver Islands for Surface-Enhanced Raman Scattering. Applied Spectroscopy, 2000, 54, 1577-1583.	2.2	63
42	Detection of Nano-Oxidation Sites on the Surface of Hemoglobin Crystals Using Tip-Enhanced Raman Scattering. Nano Letters, 2012, 12, 1555-1560.	9.1	62
43	Tip-enhanced Raman scattering (TERS) of oxidised glutathione on an ultraflat gold nanoplate. Physical Chemistry Chemical Physics, 2009, 11, 7360.	2.8	60
44	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.	3.1	58
45	Characterizing cytochrome c states â€“ TERS studies of whole mitochondria. Chemical Communications, 2011, 47, 11453.	4.1	56
46	Spatially resolved spectroscopic differentiation of hydrophilic and hydrophobic domains on individual insulin amyloid fibrils. Scientific Reports, 2016, 6, 33575.	3.3	56
47	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.	5.4	54
48	Tipâ€Enhanced Raman Spectroscopy. Journal of Raman Spectroscopy, 2009, 40, 1336-1337.	2.5	53
49	Recent advances in single-molecule sequencing. Current Opinion in Biotechnology, 2010, 21, 4-11.	6.6	53
50	Tip-enhanced Raman scattering (TERS) and high-resolution bio nano-analysisâ€”a comparison. Physical Chemistry Chemical Physics, 2010, 12, 12040.	2.8	52
51	Direct molecular-level near-field plasmon and temperature assessment in a single plasmonic hotspot. Light: Science and Applications, 2020, 9, 35.	16.6	52
52	Scanning Near-Field Optical Microscopy and Spectroscopy as a Tool for Chemical Analysis. Angewandte Chemie - International Edition, 2000, 39, 1746-1756.	13.8	48
53	Tipâ€enhanced Raman scattering studies of histidine on novel silver substrates. Journal of Raman Spectroscopy, 2009, 40, 1446-1451.	2.5	46
54	Surface- and tip-enhanced Raman spectroscopy reveals spin-waves in iron oxide nanoparticles. Nanoscale, 2015, 7, 9545-9551.	5.6	46

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55	Raman Spectroscopy and Imaging in Bioanalytics. Analytical Chemistry, 2022, 94, 86-119.	6.5	46
56	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.	1.5	45
57	Towards in situ Raman Microscopy of Single Catalytic Sites. Applied Spectroscopy, 2002, 56, 192-199.	2.2	44
58	Isotachophoretic free-flow electrophoretic focusing and SERS detection of myoglobin inside a miniaturized device. Analyst, The, 2009, 134, 38-40.	3.5	44
59	Applications of modern micro-Raman spectroscopy for cell analyses. Integrative Biology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.3	43
60	Looking at the nanoscale: scanning near-field optical microscopy. TrAC - Trends in Analytical Chemistry, 2003, 22, 70-77.	11.4	42
61	Spatial resolution in Raman spectroscopy. Faraday Discussions, 2015, 177, 9-20.	3.2	42
62	Surfaceâ€enhanced Raman scattering characteristics of CuOâ€‰: Mn/Ag heterojunction probed by methyl orange: effect of Mn²⁺ doping. Journal of Raman Spectroscopy, 2016, 47, 813-818.	2.5	42
63	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.	2.5	41
64	Nanoscale structural analysis using tip-enhanced Raman spectroscopy. Current Opinion in Chemical Biology, 2011, 15, 719-724.	6.1	41
65	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.	3.1	41
66	Tip-enhanced Raman scatteringâ€"Targeting structure-specific surface characterization for biomedical samples. Advanced Drug Delivery Reviews, 2015, 89, 42-56.	13.7	40
67	Micro-Raman Detection of Nuclear Membrane Lipid Fluctuations in Senescent Epithelial Breast Cancer Cells. Analytical Chemistry, 2010, 82, 4259-4263.	6.5	39
68	Label-free monitoring of plasmonic catalysis on the nanoscale. Analyst, The, 2015, 140, 4325-4335.	3.5	39
69	Detection of Protein Glycosylation Using Tip-Enhanced Raman Scattering. Analytical Chemistry, 2016, 88, 2105-2112.	6.5	39
70	Secondary Structure and Glycosylation of Mucus Glycoproteins by Raman Spectroscopies. Analytical Chemistry, 2016, 88, 11609-11615.	6.5	38
71	A manual and an automatic TERS based virus discrimination. Nanoscale, 2015, 7, 4545-4552.	5.6	37
72	Laser-Induced Ablation through Nanometer-Sized Tip Apertures:Â Mechanistic Aspectsâ€. Journal of Physical Chemistry B, 1997, 101, 6955-6959.	2.6	36

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73	Distinguishing chemical and electromagnetic enhancement in surfaceâ€enhanced Raman spectra: The case of paraâ€nitrothiophenol. Journal of Raman Spectroscopy, 2013, 44, 1497-1505.	2.5	36
74	Laser-deposited silver island films: an investigation of their structure, optical properties and SERS activity. Journal of Raman Spectroscopy, 1998, 29, 693-702.	2.5	35
75	Protein Handshake on the Nanoscale: How Albumin and Hemoglobin Self-Assemble into Nanohybrid Fibers. ACS Nano, 2018, 12, 1211-1219.	14.6	34
76	Enhancing sensitivity of lateral flow assay with application to SARS-CoV-2. Applied Physics Letters, 2020, 117, 120601.	3.3	34
77	Tip-Enhanced Raman Spectroscopy of Atmospherically Relevant Aerosol Nanoparticles. Analytical Chemistry, 2016, 88, 9766-9772.	6.5	33
78	Organic acids, siderophores, enzymes and mechanical pressure for black slate bioweathering with the basidiomycete Schizophyllum commune. Environmental Microbiology, 2020, 22, 1535-1546.	3.8	33
79	Brighter near-field optical probes by means of improving the optical destruction threshold. Journal of Microscopy, 1999, 194, 378-382.	1.8	31
80	Sub-wavelength Raman spectroscopy on isolated silver islands. Vibrational Spectroscopy, 2000, 22, 39-48.	2.2	30
81	Investigation of the liquidâ€“liquid interface with high spatial resolution using near-field Raman spectroscopy. Chemical Physics Letters, 2006, 417, 452-456.	2.6	30
82	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.	1.9	30
83	Multimodal Spectroscopic Study of Amyloid Fibril Polymorphism. Journal of Physical Chemistry B, 2016, 120, 8809-8817.	2.6	30
84	The chemical effect goes resonant â€“ a full quantum mechanical approach on TERS. Nanoscale, 2020, 12, 6346-6359.	5.6	29
85	Uptake of fatty acids by a single endothelial cell investigated by Raman spectroscopy supported by AFM. Analyst, The, 2018, 143, 970-980.	3.5	28
86	Theory of SERS enhancement: general discussion. Faraday Discussions, 2017, 205, 173-211.	3.2	27
87	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.	2.6	26
88	Perspectives for spatially resolved molecular spectroscopy â€“ Raman on the nanometer scale. Journal of Biophotonics, 2008, 1, 377-389.	2.3	26
89	Probing Liquidâ€“Liquid Interfaces with Spatially Resolved NMR Spectroscopy. Angewandte Chemie - International Edition, 2009, 48, 6343-6345.	13.8	26
90	Nanoscale distinction of membrane patches â€“ a TERS study of Halobacterium salinarum. Journal of Biophotonics, 2012, 5, 582-591.	2.3	26

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91	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.	7.1	25
92	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.	3.9	24
93	Local protonation control using plasmonic activation. Chemical Communications, 2014, 50, 11204-11207.	4.1	24
94	Design and Performance Characteristics of a Near-Infrared Scanning Multichannel Raman Spectrometer. Applied Spectroscopy, 1994, 48, 933-936.	2.2	23
95	A near-field optical method for probing liquidâ€“liquid interfaces. Chemical Physics Letters, 2003, 380, 47-53.	2.6	23
96	Latest instrumental developments and bioanalytical applications in tip-enhanced Raman spectroscopy. TrAC - Trends in Analytical Chemistry, 2018, 102, 250-258.	11.4	23
97	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.	8.0	22
98	Vibrational dephasing and the Raman non-coincidence effect of CHBr3 in isotopic dilution. Journal of Raman Spectroscopy, 2000, 31, 805-811.	2.5	21
99	Transparent Silver Microcrystals: Synthesis and Application for Nanoscale Analysis. Langmuir, 2009, 25, 6032-6034.	3.5	21
100	High resolution spectroscopy reveals fibrillation inhibition pathways of insulin. Scientific Reports, 2016, 6, 39622.	3.3	21
101	Nanoimaging for prion related diseases. Prion, 2010, 4, 265-274.	1.8	20
102	Dielectrophoretic positioning of single nanoparticles on atomic force microscope tips for tipâ€enhanced Raman spectroscopy. Electrophoresis, 2015, 36, 1142-1148.	2.4	20
103	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.	1.5	18
104	High precision attachment of silver nanoparticles on AFM tips by dielectrophoresis. Analytical and Bioanalytical Chemistry, 2016, 408, 3625-3631.	3.7	18
105	A Modified Transmission Tip-Enhanced Raman Scattering (TERS) Setup Provides Access to Opaque Samples. Applied Spectroscopy, 2014, 68, 916-919.	2.2	17
106	Differences in single and aggregated nanoparticle plasmon spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 2991-2995.	2.8	17
107	Arylic versus Alkylicâ€”Hydrophobic Linkers Determine the Supramolecular Structure and Optoelectronic Properties of Tripodal Amphiphilic Pushâ€“Pull Thiazoles. Langmuir, 2019, 35, 2561-2570.	3.5	17
108	Zn²⁺â€“DNA interactions in aqueous systems: A Raman spectroscopic study. Spectroscopy, 2009, 23, 155-163.	0.8	16

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109	Plasmon induced polymerization using a TERS approach: a platform for nanostructured 2D/1D material production. Faraday Discussions, 2017, 205, 213-226.	3.2	16
110	Tip-enhanced Raman scattering for tracking of invasomes in the stratum corneum. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2630-2639.	2.4	16
111	Plasmon response evaluation based on image-derived arbitrary nanostructures. Nanoscale, 2018, 10, 9830-9839.	5.6	16
112	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.	4.8	15
113	A fiber opticâ€"nanophotonic approach to the detection of antibodies and viral particles of COVID-19. Nanophotonics, 2020, 10, 235-246.	6.0	15
114	Visualization and characterisation of defined hair follicle compartments by Fourier transform infrared (FTIR) imaging without labelling. Journal of Dermatological Science, 2011, 63, 191-198.	1.9	14
115	Single virus detection by means of atomic force microscopy in combination with advanced image analysis. Journal of Structural Biology, 2014, 188, 30-38.	2.8	14
116	Analytical SERS: general discussion. Faraday Discussions, 2017, 205, 561-600.	3.2	14
117	Near- and far-field Raman spectroscopic studies of nanodiamond composite films deposited by coaxial arc plasma. Applied Physics Letters, 2020, 116, .	3.3	14
118	New Device for Raman Difference Spectroscopy with Multichannel and Scanning Multichannel Detection. Applied Spectroscopy, 1997, 51, 939-943.	2.2	13
119	Chemical and structural changes of quartz surfaces due to structuring by laser-induced backside wet etching. Physical Chemistry Chemical Physics, 2008, 10, 3195.	2.8	13
120	Raman spectroscopic approach to monitor the in vitro cyclization of creatineâ†'creatinine. Chemical Physics Letters, 2015, 618, 225-230.	2.6	12
121	Surface characterization of nanoscale co-crystals enabled through tip enhanced Raman spectroscopy. Nanoscale, 2020, 12, 10306-10319.	5.6	12
122	Ultrasensitive and towards single molecule SERS: general discussion. Faraday Discussions, 2017, 205, 291-330.	3.2	11
123	In vitro monitoring of ring opening of leflunomide: A surface enhanced Raman scattering and DFT based approach. Chemical Physics Letters, 2014, 613, 127-132.	2.6	10
124	Surface enhanced Raman scattering investigation of two novel piperazine carbodithioic acids adsorbed on Ag and ZnO nanoparticles. RSC Advances, 2015, 5, 5571-5579.	3.6	10
125	Surface enhanced Raman scattering based reaction monitoring of in vitro decyclization of creatinine â†' creatine. RSC Advances, 2016, 6, 58943-58949.	3.6	10
126	Highâ€resolution Raman Spectroscopy for the Nanostructural Characterization of Explosive Nanodiamond Precursors. ChemPhysChem, 2017, 18, 175-178.	2.1	10

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127	Unveiling the interaction of protein fibrils with gold nanoparticles by plasmon enhanced nano-spectroscopy. Nanoscale, 2021, 13, 14469-14479.	5.6	10
128	Synergy of Photoinduced Force Microscopy and Tip-Enhanced Raman Spectroscopyâ€"A Correlative Study on MoS₂. ACS Photonics, 2019, 6, 1191-1198.	6.6	9
129	Multimodal Characterization of Resin Embedded and Sliced Polymer Nanoparticles by Means of Tipâ€Enhanced Raman Spectroscopy and Forceâ€"Distance Curve Based Atomic Force Microscopy. Small, 2020, 16, 1907418.	10.0	9
130	Plasmon induced deprotonation of 2-mercaptopyridine. Analyst, The, 2020, 145, 2106-2110.	3.5	9
131	Raman spectra of ditertiary phosphines Ph2P-(CH2)n-PPh2 (n = 1â€"4) and coordination shifts in (CO)4Mo[Ph2P-(CH2)n-PPh2] (n = 1, 2). Vibrational Spectroscopy, 1994, 7, 49-60.	2.2	8
132	Dynamics of chemical bond: general discussion. Faraday Discussions, 2015, 177, 121-154.	3.2	8
133	Supramolecular Reorientation During Deposition Onto Metal Surfaces of Quasi-Two-Dimensional Langmuir Monolayers Composed of Bifunctional Amphiphilic, Twisted Perylenes. Langmuir, 2021, 37, 11018-11026.	3.5	8
134	Continuum resonance Raman scattering in isotopically pure 127I79Br. Journal of Raman Spectroscopy, 1992, 23, 365-372.	2.5	7
135	Raman spectroscopy at the beginning of the twentyâ€first century II. Journal of Raman Spectroscopy, 2008, 39, 1508-1511.	2.5	7
136	Surface-enhanced Raman scattering as a tool to probe cytochrome P450-catalysed substrate oxidation. Analytical and Bioanalytical Chemistry, 2009, 394, 1797-1801.	3.7	7
137	Label-free in vitro visualization and characterization of caveolar bulbs during stimulated re-epithelialization. Analytical and Bioanalytical Chemistry, 2014, 406, 6993-7002.	3.7	7
138	Chemo-spectroscopic sensor for carboxyl terminus overexpressed in carcinoma cell membrane. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 1831-1839.	3.3	7
139	Structural Characterization of Insulin Fibril Surfaces using Tip Enhanced Raman Spectroscopy (TERS). Biophysical Journal, 2013, 104, 49a.	0.5	6
140	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, 4035-4041.	3.7	6
141	The impact of episporic modification of Lichtheimia corymbifera on virulence and interaction with phagocytes. Computational and Structural Biotechnology Journal, 2021, 19, 880-896.	4.1	6
142	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.	3.9	6
143	Nanobiophotonics: photons that shine their light on the life at the nanoscale. Journal of Biophotonics, 2010, 3, 639-640.	2.3	5
144	Characterization of a library of vitamin A-functionalized polymethacrylate-based nanoparticles for siRNA delivery. Polymer Chemistry, 2021, 12, 911-925.	3.9	5

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145	Covalent binding of biorecognition groups to solids using poly(hydromethylsiloxane) as linkage. Talanta, 2004, 63, 159-165.	5.5	4
146	(Sub)picosecond processes in DNA and RNA constituents: a Raman spectroscopic assessment. Polymer Bulletin, 2017, 74, 4087-4100.	3.3	4
147	Electronic Raman scattering from halogen atoms in the gaseous phase. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 187, 317-321.	2.1	3
148	Future challenges: general discussion. Faraday Discussions, 2015, 177, 517-545.	3.2	3
149	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.	0.5	2
150	Tip-Enhanced Raman Scattering Reveals Heterogeneity of Secondary Structures in Amyloid Fibrils Formed by Peptide CGNNQQNY. Biophysical Journal, 2016, 110, 400a.	0.5	2
151	Molecular Relaxation Processes in Nucleic Acids Components as Probed with Raman Spectroscopy. Revista De Chimie (discontinued), 2017, 68, .	0.4	2
152	A virtual â€œWerkstattâ€•for digitization in the sciences. Research Ideas and Outcomes, 0, 6, .	1.0	2
153	Structural and Biochemical Changes in Pericardium upon Genipin Cross-Linking Investigated Using Nondestructive and Label-Free Imaging Techniques. Analytical Chemistry, 2022, 94, 1575-1584.	6.5	2
154	Synthesis and Nanoscale Characterization of Hierarchically Assembled Molecular Nanosheets. Advanced Materials Interfaces, 2022, 9, .	3.7	2
155	Tip-enhanced Raman scattering of a DNA binding compound. , 2006, 6093, 242.		1
156	MolekÃ¼lspektroskopie auf der Nanometerskala. Nachrichten Aus Der Chemie, 2006, 54, 999-1002.	0.0	1
157	Force microscopy analysis using chemometric tools. Analytical and Bioanalytical Chemistry, 2008, 390, 1253-1260.	3.7	1
158	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.	13.8	1
159	Editorial â€“ a light diagnosis. Analyst, The, 2009, 134, 1027.	3.5	1
160	Multivariate Analysis of TERS Maps On A Single Human Colon Cancer Cell. , 2010, , .		1
161	Biomedical imaging by means of linear and non-linear Raman microspectroscopy. , 2010, , .		1
162	Label free investigation of biomolecules on the nanometer scale using tip-enhanced Raman spectroscopy. , 2010, , .		1

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163	Influence of adhesion intermediate layers on the stability of nanodiamond composite films deposited on Si substrates by coaxial arc plasma. Applied Physics Express, 0, , .	2.4	1
164	NANOCRYSTALLIZATION OF ENERGETIC MATERIALS BY SPRAY FLASH EVAPORATION FOR EXPLOSIVES AND PROPELLANTS. International Journal of Energetic Materials and Chemical Propulsion, 2019, 18, 325-339.	0.3	1
165	<title>Subwavelength Raman imaging of biological samples using near-field spectroscopy</title>. , 1999, , .		0
166	Tip-Enhanced Raman Scattering (TERS) Of Uracil Strands. , 2010, , .		0
167	A New Approach To Sequence Proteins: TERS On Insulin Fibrils. , 2010, , .		0
168	Atomically Flat Metal Nanoplates: Ideal Substrates For TERS Measurements. , 2010, , .		0
169	TERS Measurements on Halobacterium Salinarum. , 2010, , .		0
170	TERS as a Diagnostic Tool for Single Virus Detection. , 2010, , .		0
171	Tip-Enhanced Raman Scattering Sensitive, Label-Free, Nanoscale. , 2010, , .		0
172	Label-Free Non-Destructive Identification of Stem Cells in the Hair Follicle with Confocal Raman Spectrocopy. , 2010, , .		0
173	Describing Single Proteins Located In Membrane Structures by TERS. , 2010, , .		0
174	Probing Cell Membrane Models by Tip-Enhanced Raman Spectroscopyâ€"TERS. , 2010, , .		0
175	TERS Studies Of Homogeneously Immobilized Aromatic Amino Acids. , 2010, , .		0
176	Imaging And Characterization Of Caveolae With TERS During Stimulated Wound Healing. , 2010, , .		0
177	Micro-Raman Detection of Nuclear Membrane Lipid Fluctuations in Senescent Cancer Cells. , 2010, , .		0
178	Unraveling the Link between Molecular Conformation and Morphology and Mechanics of Amyloid Fibrils. Biophysical Journal, 2013, 104, 553a-554a.	0.5	0
179	Amyloid Fibrils: Nanoscale Heterogeneity of the Molecular Structure of Individual hIAPP Amyloid Fibrils Revealed with Tipâ€Enhanced Raman Spectroscopy (Small 33/2015). Small, 2015, 11, 4130-4130.	10.0	0
180	Magnetic apatite for structural insights on the plasma membrane. Nanotechnology, 2015, 26, 035601.	2.6	0

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181	Aqueous Black Colloids of Reticular Nanostructured Gold. Scientific Reports, 2015, 5, 7899.	3.3	0
182	Reactivity and Bio Samples Probed by Tip-Enhanced Raman Spectroscopy. , 2019, , 71-108.		0