Karen Faulds

List of Publications by Year
in descending order

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181 papers	10,548 citations	50276 46 h-index	36028 97 g-index
189 all docs	189 docs citations	189 times ranked	10694 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	Surface-Enhanced Raman Scattering (SERS) and Surface-Enhanced Resonance Raman Scattering (SERRS): A Review of Applications. Applied Spectroscopy, 2011, 65, 825-837.	2.2	522
3	Control of enhanced Raman scattering using a DNA-based assembly process of dye-coded nanoparticles. Nature Nanotechnology, 2008, 3, 548-551.	31.5	354
4	Surface-enhanced Raman spectroscopy for in vivo biosensing. Nature Reviews Chemistry, 2017, 1, .	30.2	325
5	Multiplex in vitro detection using SERS. Chemical Society Reviews, 2016, 45, 1901-1918.	38.1	280
6	Evaluation of Surface-Enhanced Resonance Raman Scattering for Quantitative DNA Analysis. Analytical Chemistry, 2004, 76, 412-417.	6.5	245
7	Ultrasensitive DNA Detection Using Oligonucleotideâ^'Silver Nanoparticle Conjugates. Analytical Chemistry, 2008, 80, 2805-2810.	6.5	236
8	SERS Detection of Multiple Antimicrobial-Resistant Pathogens Using Nanosensors. Analytical Chemistry, 2017, 89, 12666-12673.	6.5	170
9	Surface enhanced spatially offset Raman spectroscopic (SESORS) imaging â€“ the next dimension. Chemical Science, 2011, 2, 776.	7.4	163
10	Comparison of Surface-Enhanced Resonance Raman Scattering from Unaggregated and Aggregated Nanoparticles. Analytical Chemistry, 2004, 76, 592-598.	6.5	159
11	Quantitative SERRS for DNA sequence analysis. Chemical Society Reviews, 2008, 37, 1042.	38.1	155
12	Raman spectroscopy and regenerative medicine: a review. Npj Regenerative Medicine, 2017, 2, 12.	5.2	147
13	Quantitative Simultaneous Multianalyte Detection of DNA by Dual-Wavelength Surface-Enhanced Resonance Raman Scattering. Angewandte Chemie - International Edition, 2007, 46, 1829-1831.	13.8	138
14	Simultaneous detection and quantification of three bacterial meningitis pathogens by SERS. Chemical Science, 2014, 5, 1030-1040.	7.4	134
15	SERRS as a more sensitive technique for the detection of labelled oligonucleotides compared to fluorescence. Analyst, The, 2004, 129, 567.	3.5	132
16	Quantitative Enhanced Raman Scattering of Labeled DNA from Gold and Silver Nanoparticles. Small, 2007, 3, 1593-1601.	10.0	130
17	Recent developments in quantitative SERS: Moving towards absolute quantification. TrAC - Trends in Analytical Chemistry, 2018, 102, 359-368.	11.4	127
18	Multiplexed detection of six labelled oligonucleotides using surface enhanced resonance Raman scattering (SERRS). Analyst, The, 2008, 133, 1505.	3.5	126

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19	Assessment of silver and gold substrates for the detection of amphetamine sulfate by surface enhanced Raman scattering (SERS). Analyst, The, 2002, 127, 282-286.	3.5	123
20	Prospects of Deep Raman Spectroscopy for Noninvasive Detection of Conjugated Surface Enhanced Resonance Raman Scattering Nanoparticles Buried within 25 mm of Mammalian Tissue. Analytical Chemistry, 2010, 82, 3969-3973.	6.5	121
21	Importance of Nanoparticle Size in Colorimetric and SERSâ€Based Multimodal Trace Detection of Ni(II) Ions with Functional Gold Nanoparticles. Small, 2012, 8, 707-714.	10.0	115
22	Biosensing using silver nanoparticles and surface enhanced resonance Raman scattering. Chemical Communications, 2006, , 4363.	4.1	112
23	Surface enhanced Raman scattering for multiplexed detection. Analyst, The, 2012, 137, 545-554.	3.5	109
24	2,4-dienoyl-CoA reductase regulates lipid homeostasis in treatment-resistant prostate cancer. Nature Communications, 2020, 11, 2508.	12.8	108
25	Recent developments and future directions in SERS for bioanalysis. Physical Chemistry Chemical Physics, 2013, 15, 5312.	2.8	107
26	Through-space transfer of chiral information mediated by a plasmonic nanomaterial. Nature Chemistry, 2015, 7, 591-596.	13.6	105
27	Quantitative Detection of Human Tumor Necrosis Factor Î± by a Resonance Raman Enzyme-Linked Immunosorbent Assay. Analytical Chemistry, 2011, 83, 297-302.	6.5	92
28	Au@Ag SERRS tags coupled to a lateral flow immunoassay for the sensitive detection of pneumolysin. Nanoscale, 2017, 9, 2051-2058.	5.6	91
29	DNA Sequence Detection Using Surface-Enhanced Resonance Raman Spectroscopy in a Homogeneous Multiplexed Assay. Analytical Chemistry, 2009, 81, 8134-8140.	6.5	83
30	Surface enhanced Raman spectroscopy (SERS): Potential applications for disease detection and treatment. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2014, 21, 40-53.	11.6	75
31	Positively charged silver nanoparticles and their effect on surface-enhanced Raman scattering of dye-labelled oligonucleotides. Chemical Communications, 2012, 48, 8192.	4.1	72
32	Bioanalytical Measurements Enabled by Surface-Enhanced Raman Scattering (SERS) Probes. Annual Review of Analytical Chemistry, 2017, 10, 415-437.	5.4	71
33	Separation Free DNA Detection Using Surface Enhanced Raman Scattering. Analytical Chemistry, 2011, 83, 5817-5821.	6.5	67
34	Detection of Inflammation in Vivo by Surface-Enhanced Raman Scattering Provides Higher Sensitivity Than Conventional Fluorescence Imaging. Analytical Chemistry, 2012, 84, 5968-5975.	6.5	62
35	Silver and magnetic nanoparticles for sensitive DNA detection by SERS. Chemical Communications, 2014, 50, 12907-12910.	4.1	62
36	SERRS dyes. Part I. Synthesis of benzotriazole monoazo dyes as model analytes for surface enhanced resonance Raman scattering. Analyst, The, 2002, 127, 838-841.	3.5	60

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37	DNA detection by surface enhanced resonance Raman scattering (SERRS). Analyst, The, 2005, 130, 1125.	3.5	59
38	The past, present and future of enzyme measurements using surface enhanced Raman spectroscopy. Chemical Science, 2010, 1, 151.	7.4	59
39	A new approach for DNA detection by SERRS. Faraday Discussions, 2006, 132, 261-268.	3.2	57
40	3D optical imaging of multiple SERS nanotags in cells. Chemical Science, 2013, 4, 3566.	7.4	57
41	Investigation of cellular uptake mechanism of functionalised gold nanoparticles into breast cancer using SERS. Chemical Science, 2020, 11, 5819-5829.	7.4	57
42	In vivo multiplex molecular imaging of vascular inflammation using surface-enhanced Raman spectroscopy. Theranostics, 2018, 8, 6195-6209.	10.0	56
43	Tuning the interparticle distance in nanoparticle assemblies in suspension via DNA-triplex formation: correlation between plasmonic and surface-enhanced Raman scattering responses. Chemical Science, 2012, 3, 2262.	7.4	52
44	Sequenceâ€Specific DNA Detection Using Highâ€Affinity LNAâ€Functionalized Gold Nanoparticles. Small, 2007, 3, 1866-1868.	10.0	50
45	Surface Enhanced Raman Spectroscopy for Quantitative Analysis: Results of a Large-Scale European Multi-Instrument Interlaboratory Study. Analytical Chemistry, 2020, 92, 4053-4064.	6.5	50
46	Detection of Multiple Nitroaromatic Explosives via Formation of a Janowsky Complex and SERS. Analytical Chemistry, 2020, 92, 3253-3261.	6.5	50
47	LNA functionalized gold nanoparticles as probes for double stranded DNA through triplex formation. Chemical Communications, 2008, , 2367.	4.1	47
48	Extreme red shifted SERS nanotags. Chemical Science, 2015, 6, 2302-2306.	7.4	47
49	Directed Assembly of DNA-Functionalized Gold Nanoparticles Using Pyrroleâ€“Imidazole Polyamides. Journal of the American Chemical Society, 2012, 134, 8356-8359.	13.7	46
50	SERS Primers and Their Mode of Action for Pathogen DNA Detection. Analytical Chemistry, 2013, 85, 1408-1414.	6.5	46
51	A novel nanozyme assay utilising the catalytic activity of silver nanoparticles and SERRS. Analyst, The, 2017, 142, 2484-2490.	3.5	46
52	Through tissue imaging of a live breast cancer tumour model using handheld surface enhanced spatially offset resonance Raman spectroscopy (SESORRS). Chemical Science, 2018, 9, 3788-3792.	7.4	45
53	DNA detection using enzymatic signal production and SERS. Chemical Communications, 2011, 47, 4649.	4.1	44
54	SERS activity and stability of the most frequently used silver colloids. Journal of Raman Spectroscopy, 2012, 43, 202-206.	2.5	44

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55	Synthesis and NIR optical properties of hollow gold nanospheres with LSPR greater than one micrometer. Nanoscale, 2013, 5, 765-771.	5.6	44
56	Confocal SERS Mapping of Glycan Expression for the Identification of Cancerous Cells. Analytical Chemistry, 2014, 86, 4775-4782.	6.5	44
57	Silver colloids as plasmonic substrates for direct label-free surface-enhanced Raman scattering analysis of DNA. Analyst, The, 2016, 141, 5170-5180.	3.5	43
58	Ratiometric analysis using Raman spectroscopy as a powerful predictor of structural properties of fatty acids. Royal Society Open Science, 2018, 5, 181483.	2.4	43
59	Tracking Bisphosphonates through a 20â€…mm Thick Porcine Tissue by Using Surfaceâ€Enhanced Spatially Offset Raman Spectroscopy. Angewandte Chemie - International Edition, 2012, 51, 8509-8511.	13.8	42
60	SERRS-Based Enzymatic Probes for the Detection of Protease Activity. Journal of the American Chemical Society, 2008, 130, 11846-11847.	13.7	41
61	Surface-Enhanced Raman Scattering Investigation of Hollow Gold Nanospheres. Journal of Physical Chemistry C, 2012, 116, 8338-8342.	3.1	41
62	Detection of SERS active labelled DNA based on surface affinity to silver nanoparticles. Analyst, The, 2012, 137, 2063.	3.5	41
63	Synthesis of size tunable monodispersed silver nanoparticles and the effect of size on SERS enhancement. Vibrational Spectroscopy, 2014, 71, 41-46.	2.2	41
64	Combining functionalised nanoparticles and SERS for the detection of DNA relating to disease. Faraday Discussions, 2011, 149, 291-299.	3.2	40
65	Formation of SERS active nanoparticle assemblies via specific carbohydrateâ€“protein interactions. Chemical Communications, 2013, 49, 30-32.	4.1	40
66	Surface-Enhanced, Spatially Offset Raman Spectroscopy (SESORS) in Tissue Analogues. ACS Applied Materials & Interfaces, 2017, 9, 25488-25494.	8.0	40
67	Rationally designed SERS active silica coated silver nanoparticles. Chemical Communications, 2011, 47, 4415.	4.1	39
68	Detection of cardiovascular disease associated miR-29a using paper-based microfluidics and surface enhanced Raman scattering. Analyst, The, 2020, 145, 983-991.	3.5	39
69	Protonâ€Conductive Melaninâ€Like Fibers through Enzymatic Oxidation of a Selfâ€Assembling Peptide. Advanced Materials, 2020, 32, e2003511.	21.0	38
70	Characterization of Novel Ag on TiO2 Films for Surface-Enhanced Raman Scattering. Applied Spectroscopy, 2004, 58, 922-928.	2.2	37
71	Quantitative detection of dye labelled DNA using surface enhanced resonance Raman scattering (SERRS) from silver nanoparticles. Talanta, 2005, 67, 667-671.	5.5	36
72	Highly sensitive detection of dye-labelled DNA using nanostructured gold surfaces. Chemical Communications, 2007, , 2811.	4.1	35

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73	An investigation into the simultaneous enzymatic and SERRS properties of silver nanoparticles. Analyst, The, 2013, 138, 6347.	3.5	35
74	1064 nm SERS of NIR active hollow gold nanotags. Physical Chemistry Chemical Physics, 2015, 17, 1980-1986.	2.8	35
75	Fabricating protein immunoassay arrays on nitrocellulose using Dip-pen lithography techniques. Analyst, The, 2011, 136, 2925.	3.5	33
76	Growth and surface-enhanced Raman scattering of Ag nanoparticle assembly in agarose gel. Measurement Science and Technology, 2012, 23, 084006.	2.6	32
77	Rapid prototyping of poly(dimethoxysiloxane) dot arrays by dip-pen nanolithography. Chemical Science, 2011, 2, 211-215.	7.4	31
78	Organoimido-Polyoxometalate Nonlinear Optical Chromophores: A Structural, Spectroscopic, and Computational Study. Inorganic Chemistry, 2017, 56, 10181-10194.	4.0	31
79	Analysis of intracellular enzyme activity by surface enhanced Raman scattering. Analyst, The, 2013, 138, 6331.	3.5	30
80	Tracking intracellular uptake and localisation of alkyne tagged fatty acids using Raman spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 197, 30-36.	3.9	29
81	8-Hydroxyquinolinyl Azo Dyes:â€‰A Class of Surface-Enhanced Resonance Raman Scattering-Based Probes for Ultrasensitive Monitoring of Enzymatic Activity. Analytical Chemistry, 2007, 79, 8578-8583.	6.5	28
82	Improved Versatility of Silver Nanoparticle Dimers for Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 13249-13254.	3.1	27
83	A new class of ratiometric small molecule intracellular pH sensors for Raman microscopy. Analyst, The, 2020, 145, 5289-5298.	3.5	27
84	Synthesis of Unique Nanostructures with Novel Optical Properties Using Oligonucleotide Mixedâ€“Metal Nanoparticle Conjugates. Small, 2008, 4, 1054-1057.	10.0	26
85	Rapid Raman mapping for chocolate analysis. Analytical Methods, 2010, 2, 1230.	2.7	26
86	Multiplex imaging of live breast cancer tumour models through tissue using handheld surface enhanced spatially offset resonance Raman spectroscopy (SESORRS). Chemical Communications, 2018, 54, 8530-8533.	4.1	26
87	Surface Design for Immobilization of an Antimicrobial Peptide Mimic for Efficient Antiâ€Biofouling. Chemistry - A European Journal, 2020, 26, 5789-5793.	3.3	25
88	Detection of Estrogen Receptor Alpha and Assessment of Fulvestrant Activity in MCF-7 Tumor Spheroids Using Microfluidics and SERS. Analytical Chemistry, 2021, 93, 5862-5871.	6.5	25
89	DNA detection by SERS: hybridisation parameters and the potential for asymmetric PCR. Analyst, The, 2020, 145, 1871-1877.	3.5	24
90	Rapid cell mapping using nanoparticles and SERRS. Analyst, The, 2009, 134, 170-175.	3.5	23

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91	Functionalisation of hollow gold nanospheres for use as stable, red-shifted SERS nanotags. Nanoscale, 2015, 7, 6075-6082.	5.6	23
92	Surface enhanced resonance Raman spectroscopy (SERRS) for probing through plastic and tissue barriers using a handheld spectrometer. Analyst, The, 2018, 143, 5965-5973.	3.5	23
93	Rapid ultra-sensitive diagnosis of clostridium difficile infection using a SERS-based lateral flow assay. Analyst, The, 2021, 146, 4495-4505.	3.5	23
94	Surface enhanced Raman scattering for the multiplexed detection of pathogenic microorganisms: towards point-of-use applications. Analyst, The, 2021, 146, 6084-6101.	3.5	23
95	In situ detection of pterins by SERS. Analyst, The, 2009, 134, 1561.	3.5	22
96	Surface-enhanced Raman scattering as a detection technique for molecular diagnostics. Expert Review of Molecular Diagnostics, 2009, 9, 537-539.	3.1	22
97	Stable dye-labelled oligonucleotide-nanoparticle conjugates for nucleic acid detection. Nanoscale, 2011, 3, 3221.	5.6	22
98	Nanosensing protein allostery using a bivalent mouse double minute two (MDM2) assay. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8073-8078.	7.1	22
99	Fundamental developments in clinical infrared and Raman spectroscopy. Chemical Society Reviews, 2016, 45, 1792-1793.	38.1	21
100	High Figure of Merit (FOM) of Bragg Modes in Auâ€Coated Nanodisk Arrays for Plasmonic Sensing. Small, 2017, 13, 1700908.	10.0	21
101	Mitokyne: A Ratiometric Raman Probe for Mitochondrial pH. Analytical Chemistry, 2021, 93, 12786-12792.	6.5	21
102	Mixed metal nanoparticle assembly and the effect on surface-enhanced Raman scattering. Nanoscale, 2010, 2, 78-80.	5.6	20
103	Ratiometric sensing of fluoride ions using Raman spectroscopy. Chemical Communications, 2020, 56, 14463-14466.	4.1	20
104	Quantitative surface-enhanced resonance Raman scattering of phthalocyanine-labelled oligonucleotides. Nucleic Acids Research, 2007, 35, e42-e42.	14.5	19
105	Functionalized nanoparticles for bioanalysis by SERRS. Biochemical Society Transactions, 2009, 37, 697-701.	3.4	19
106	Turning up the lightsâ€"fabrication of brighter SERRS nanotags. Chemical Communications, 2010, 46, 5247.	4.1	19
107	Elucidation of the bonding of a near infrared dye to hollow gold nanospheres â€“ a chalcogen tripod. Chemical Science, 2016, 7, 5160-5170.	7.4	19
108	Sensitive SERS nanotags for use with 1550 nm (retina-safe) laser excitation. Analyst, The, 2016, 141, 5062-5065.	3.5	19

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109	Ratiometric Raman imaging reveals the new anti-cancer potential of lipid targeting drugs. Chemical Science, 2018, 9, 6935-6943.	7.4	19
110	Stimulated Raman scattering microscopy with spectral phasor analysis: applications in assessing drugâ€“cell interactions. Chemical Science, 2022, 13, 3468-3476.	7.4	19
111	Bacterial meningitis pathogens identified in clinical samples using a SERS DNA detection assay. Analytical Methods, 2015, 7, 1269-1272.	2.7	18
112	Mixed-monolayer glyconanoparticles for the detection of cholera toxin by surface enhanced Raman spectroscopy. Nanoscale Horizons, 2016, 1, 60-63.	8.0	18
113	Through barrier detection of ethanol using handheld Raman spectroscopyâ€”Conventional Raman versus spatially offset Raman spectroscopy (SORS). Journal of Raman Spectroscopy, 2017, 48, 1828-1838.	2.5	18
114	Raman Spectroscopy in Prostate Cancer: Techniques, Applications and Advancements. Cancers, 2022, 14, 1535.	3.7	18
115	Label-Free Imaging of Lipid Droplets in Prostate Cells Using Stimulated Raman Scattering Microscopy and Multivariate Analysis. Analytical Chemistry, 2022, 94, 8899-8908.	6.5	18
116	Specific detection of DNA through coupling of a TaqMan assay with surface enhanced Raman scattering (SERS). Chemical Communications, 2012, 48, 9412.	4.1	17
117	Precise Control of the Assembly of Dye-Coded Oligonucleotide Silver Nanoparticle Conjugates with Single Base Mismatch Discrimination Using Surface Enhanced Resonance Raman Scattering. Journal of Physical Chemistry C, 2010, 114, 7384-7389.	3.1	16
118	Detection of potentially toxic metals by SERS using salen complexes. Analyst, The, 2016, 141, 5857-5863.	3.5	16
119	Preferential Attachment of Specific Fluorescent Dyes and Dye Labeled DNA Sequences in a Surface Enhanced Raman Scattering Multiplex. Analytical Chemistry, 2016, 88, 1147-1153.	6.5	16
120	Comparison of Raman and Near-Infrared Chemical Mapping for the Analysis of Pharmaceutical Tablets. Applied Spectroscopy, 2021, 75, 178-188.	2.2	16
121	Towards quantitative point of care detection using SERS lateral flow immunoassays. Analytical and Bioanalytical Chemistry, 2022, 414, 4541-4549.	3.7	16
122	Evaluation of the number of modified bases required for quantitative SERRS from labelled DNA. Analyst, The, 2007, 132, 1100.	3.5	15
123	From synthetic DNA to PCR product: detection of fungal infections using SERS. Faraday Discussions, 2016, 187, 461-472.	3.2	15
124	Detection of cortisol in serum using quantitative resonance Raman spectroscopy. Analytical Methods, 2017, 9, 1589-1594.	2.7	15
125	Analytical SERS: general discussion. Faraday Discussions, 2017, 205, 561-600.	3.2	14
126	Dynamic pH measurements of intracellular pathways using nano-plasmonic assemblies. Analyst, The, 2020, 145, 5768-5775.	3.5	14

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127	From Raman to SESORRS: moving deeper into cancer detection and treatment monitoring. Chemical Communications, 2021, 57, 12436-12451.	4.1	14
128	Quantitative Surface-Enhanced Resonance Raman Spectroscopy for Analysis. , 2006, , 381-396.		13
129	Sensitive SERS nanotags for use with a hand-held 1064â€‰nm Raman spectrometer. Royal Society Open Science, 2017, 4, 170422.	2.4	13
130	Depth prediction of nanotags in tissue using surface enhanced spatially offset Raman scattering (SESORS). Chemical Communications, 2022, 58, 1756-1759.	4.1	13
131	Investigation of enzyme activity by SERRS using poly-functionalised benzotriazole derivatives as enzyme substrates. Organic and Biomolecular Chemistry, 2006, 4, 2869.	2.8	12
132	Bayesian methods to detect dye-labelled DNA oligonucleotides in multiplexed Raman spectra. Journal of the Royal Statistical Society Series C: Applied Statistics, 2011, 60, 187-206.	1.0	12
133	Immunoassay Arrays Fabricated by Dip-Pen Nanolithography with Resonance Raman Detection. Analytical Chemistry, 2013, 85, 5617-5621.	6.5	12
134	Interaction of fluorescent dyes with DNA and spermine using fluorescence spectroscopy. Analyst, The, 2014, 139, 3735-3743.	3.5	12
135	Determination of metal ion concentrations by SERS using 2,2â€²-bipyridyl complexes. Analyst, The, 2015, 140, 6538-6543.	3.5	12
136	THEM6â€mediated reprogramming of lipid metabolism supports treatment resistance in prostate cancer. EMBO Molecular Medicine, 2022, 14, e14764.	6.9	12
137	Identification of condensed-phase species on the thermal transformation of alkaline and alkaline earth metal sulphates on a graphite platform. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 827-839.	2.9	11
138	Deciphering Surface Enhanced Raman Scattering Activity of Gold Nanoworms through Optical Correlations. Journal of Physical Chemistry C, 2011, 115, 20515-20522.	3.1	11
139	Qualitative SERS analysis of G-quadruplex DNAs using selective stabilising ligands. Analyst, The, 2014, 139, 4458-4465.	3.5	11
140	Effect of glycine on aggregation of citrate-functionalised gold nanoparticles and SERS measurements. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 621, 126523.	4.7	11
141	Characterization of condensed phase species produced during the thermal treatment of metal chlorides on a graphite platform using surface analysis techniques. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 1935-1942.	2.9	10
142	Study of the effect of nitric acid and metal-based chemical modifiers on graphite platform surfaces by Raman spectrometry. Journal of Analytical Atomic Spectrometry, 2009, 24, 1044.	3.0	10
143	Thermoresponsive Polymer Micropatterns Fabricated by Dip-Pen Nanolithography for a Highly Controllable Substrate with Potential Cellular Applications. ACS Applied Materials & Interfaces, 2016, 8, 24844-24852.	8.0	10
144	Towards establishing a minimal nanoparticle concentration for applications involving surface enhanced spatially offset resonance Raman spectroscopy (SESORRS) in vivo. Analyst, The, 2018, 143, 5358-5363.	3.5	10

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145	The inorganic chemistry of surface enhanced Raman scattering (SERS). Spectroscopic Properties of Inorganic and Organometallic Compounds, 0, , 1-21.	0.4	10
146	Functionalized nanoparticles for nucleic acid sequence analysis using optical spectroscopies. Biochemical Society Transactions, 2009, 37, 441-444.	3.4	9
147	Design Consideration for Surface-Enhanced (Resonance) Raman Scattering Nanotag Cores. Journal of Physical Chemistry C, 2012, 116, 2677-2682.	3.1	9
148	Resonance Raman scattering of catalytic beacons for DNA detection. Chemical Communications, 2013, 49, 3206.	4.1	9
149	Modulation of interparticle gap for enhanced SERS sensitivity in chemically stable Ag@Au hetero-architectures. New Journal of Chemistry, 2020, 44, 13843-13851.	2.8	9
150	Characterisation of estrogen receptor alpha (ERÎ±) expression in breast cancer cells and effect of drug treatment using targeted nanoparticles and SERS. Analyst, The, 2020, 145, 7225-7233.	3.5	9
151	Tomographic Imaging and Localization of Nanoparticles in Tissue Using Surface-Enhanced Spatially Offset Raman Spectroscopy. ACS Applied Materials & Interfaces, 2022, 14, 31613-31624.	8.0	9
152	Quantification of Functionalised Gold Nanoparticle-Targeted Knockdown of Gene Expression in HeLa Cells. PLoS ONE, 2014, 9, e99458.	2.5	8
153	Laser induced SERS switching using plasmonic heating of PNIPAM coated HGNs. Chemical Communications, 2015, 51, 8138-8141.	4.1	8
154	Resonance Raman detection of antioxidants using an iron oxide nanoparticle catalysed decolourisation assay. Analyst, The, 2017, 142, 4715-4720.	3.5	7
155	Raman spectroscopic analysis of skin as a diagnostic tool for Human African Trypanosomiasis. PLoS Pathogens, 2021, 17, e1010060.	4.7	7
156	Enhancing the SERS properties of nanoworms by matrix formation. Analyst, The, 2012, 137, 2297.	3.5	6
157	Analysis of Photothermal Release of Oligonucleotides from Hollow Gold Nanospheres by Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2016, 120, 20677-20683.	3.1	6
158	Introducing 12 new dyes for use with oligonucleotide functionalised silver nanoparticles for DNA detection with SERS. RSC Advances, 2018, 8, 17685-17693.	3.6	5
159	Evaluation of laser direct infrared imaging for rapid analysis of pharmaceutical tablets. Analytical Methods, 2022, 14, 1862-1871.	2.7	5
160	Nanoparticle assembly for sensitive DNA detection using SERRS. Biochemical Society Transactions, 2012, 40, 597-602.	3.4	4
161	Multiplexed SERS for DNA Detection. , 2012, , 353-378.		4
162	Threeâ€dimensional imaging of pharmaceutical tablets using serial sectioning and Raman chemical mapping. Journal of Raman Spectroscopy, 2022, 53, 1115-1125.	2.5	4

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163	Detection of a miRNA biomarker for cancer diagnosis using SERS tags and magnetic separation. Analytical Methods, 2022, 14, 1938-1945.	2.7	4
164	Characterization of condensed phase beryllium species in the presence of aluminium and silicon matrices during electrothermal heating on graphite and tungsten platforms. Journal of Analytical Atomic Spectrometry, 2011, 26, 1722.	3.0	3
165	Improving the understanding of oligonucleotideâ€“nanoparticle conjugates using DNA-binding fluorophores. Nanoscale, 2013, 5, 4166.	5.6	3
166	Investigation of Silver Nanoparticle Assembly Following Hybridization with Different Lengths of DNA. Particle and Particle Systems Characterization, 2016, 33, 404-411.	2.3	3
167	Analytical nanoscience. Analyst, The, 2022, 147, 765-766.	3.5	2
168	Raman spectroscopy of illicit substances. Proceedings of SPIE, 2007, , .	0.8	1
169	Synergistic electrodeposition of bilayer films and analysis by Raman spectroscopy. Beilstein Journal of Organic Chemistry, 2018, 14, 2186-2189.	2.2	1
170	Utilizing Raman Spectroscopy as a Tool for Solid- and Solution-Phase Analysis of Metalloorganic Cage Hostâ€“Guest Complexes. Inorganic Chemistry, 2022, , .	4.0	1
171	Single and double stranded DNA detection using locked nucleic acid (LNA) functionalized nanoparticles. , 2008, , .		0
172	Functionalised nanoparticles and SERRS for bioanalysis. , 2009, , .		0
173	Sensitive molecular diagnostics using surface-enhanced resonance Raman scattering (SERRS). , 2009, , .		0
174	Controlled SERRS Using Biologically Driven Nanoparticle Assembly. , 2010, , .		0
175	Raman Microspectroscopy Mapping Of Chocolate. , 2010, , .		0
176	Silver Nanoparticle Dimers In Solution, Brighter Nanotags And Substrates For SMD. , 2010, , .		0
177	DNA Sequence Detection Using Surface Enhanced Resonance Raman Spectroscopy (SERRS) in a Homogeneous Multiplexed Assay. , 2010, , .		0
178	Functionalisation, Characterization, and Application of Metal Nanoparticles for Bioanalysis. ACS Symposium Series, 2012, , 33-58.	0.5	0
179	CHAPTER 11. Nucleic Acidâ€“Nanoparticle Conjugate Sensors for Use with Surface Enhanced Resonance Raman Scattering (SERRS). RSC Biomolecular Sciences, 2012, , 258-277.	0.4	0
180	Data processing of three-dimensional vibrational spectroscopic chemical images for pharmaceutical applications. Journal of Spectral Imaging, 0, , .	0.0	0

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181	Quantitative Surface-Enhanced Resonance Raman Spectroscopy for Analysis. , 2006, , 381-396.		0