Mei-Kun Fan

List of Publications by Year
in descending order

71 papers	3,622 citations	172457 29 h-index	133252 59 g-index
71 all docs	71 docs citations	71 times ranked	5123 citing authors

#	Article	IF	Citations
1	A review on the fabrication of substrates for surface enhanced Raman spectroscopy and their applications in analytical chemistry. Analytica Chimica Acta, 2011, 693, 7-25.	5.4	905
2	A review on recent advances in the applications of surface-enhanced Raman scattering in analytical chemistry. Analytica Chimica Acta, 2020, 1097, 1-29.	5.4	339
3	Silver nanoparticles self assembly as SERS substrates with near single molecule detection limit. Physical Chemistry Chemical Physics, 2009, 11, 7381.	2.8	224
4	3D printing of a mechanically durable superhydrophobic porous membrane for oilâ€“water separation. Journal of Materials Chemistry A, 2017, 5, 12435-12444.	10.3	189
5	Surface-enhanced Raman scattering (SERS) from Au:Ag bimetallic nanoparticles: the effect of the molecular probe. Chemical Science, 2013, 4, 509-515.	7.4	183
6	Multilayer silver nanoparticles-modified optical fiber tip for high performance SERS remote sensing. Biosensors and Bioelectronics, 2010, 25, 2270-2275.	10.1	123
7	Fabrication of SERS Swab for Direct Detection of Trace Explosives in Fingerprints. ACS Applied Materials & Interfaces, 2014, 6, 21931-21937.	8.0	119
8	Silver Nanoparticles on a Plastic Platform for Localized Surface Plasmon Resonance Biosensing. Analytical Chemistry, 2010, 82, 6350-6352.	6.5	107
9	Ammonia Synthesis from Electrocatalytic N₂ Reduction under Ambient Conditions by Fe₂O₃ Nanorods. ChemCatChem, 2018, 10, 4530-4535.	3.7	95
10	Screening pesticide residues on fruit peels using portable Raman spectrometer combined with adhesive tape sampling. Food Chemistry, 2019, 295, 254-258.	8.2	72
11	Enhanced wetting properties of a polypropylene separator for a lithium-ion battery by hyperthermal hydrogen induced cross-linking of poly(ethylene oxide). Journal of Materials Chemistry A, 2014, 2, 11980-11986.	10.3	68
12	Conductive polymer nanocomposites with hierarchical multi-scale structures via self-assembly of carbon-nanotubes on graphene on polymer-microspheres. Nanoscale, 2014, 6, 7877-7888.	5.6	66
13	Resolving the dilemma of gaining conductivity but losing environmental friendliness in producing polystyrene/graphene composites via optimizing the matrix-filler structure. Green Chemistry, 2013, 15, 821.	9.0	61
14	Surfaceâ€enhanced Raman spectroscopy for onâ€site analysis: A review of recent developments. Luminescence, 2020, 35, 808-820.	2.9	61
15	Modulation of potential barrier heights in Co3O4/SnO2 heterojunctions for highly H2-selective sensors. Sensors and Actuators B: Chemical, 2017, 244, 694-700.	7.8	55
16	Development of multicolor carbon nanoparticles for cell imaging. Talanta, 2013, 108, 59-65.	5.5	54
17	Surface-enhanced Raman scattering (SERS) optrodes for multiplexed on-chip sensing of nile blue A and oxazine 720. Lab on A Chip, 2012, 12, 1554.	6.0	49
18	Dual functional PDMS sponge SERS substrate for the on-site detection of pesticides both on fruit surfaces and in juice. Analyst, The, 2018, 143, 2689-2695.	3.5	49

#	Article	IF	Citations
19	Ag decorated sandpaper as flexible SERS substrate for direct swabbing sampling. Materials Letters, 2014, 133, 57-59.	2.6	48
20	Selfâ€Assembled Au Nanoparticles as Substrates for Surfaceâ€Enhanced Vibrational Spectroscopy: Optimization and Electrochemical Stability. ChemPhysChem, 2008, 9, 1899-1907.	2.1	43
21	Statistical Correlation Between SERS Intensity and Nanoparticle Cluster Size. Journal of Physical Chemistry C, 2013, 117, 16596-16605.	3.1	41
22	Separation, identification and fast determination of organophosphate pesticide methidathion in tea leaves by thin layer chromatographyâ€“surface-enhanced Raman scattering. Analytical Methods, 2013, 5, 5560.	2.7	41
23	A silver nanoparticle embedded hydrogel as a substrate for surface contamination analysis by surface-enhanced Raman scattering. Analyst, The, 2014, 139, 5283-5289.	3.5	38
24	Silver-nanoparticles-loaded chitosan foam as a flexible SERS substrate for active collecting analytes from both solid surface and solution. Talanta, 2019, 191, 241-247.	5.5	38
25	Facile preparation of silver nanoparticle decorated chitosan cryogels for point-of-use water disinfection. Science of the Total Environment, 2018, 613-614, 1317-1323.	8.0	36
26	Detection of Buried Explosives Using a Surface-Enhanced Raman Scattering (SERS) Substrate Tailored for Miniaturized Spectrometers. ACS Sensors, 2020, 5, 2933-2939.	7.8	36
27	Facile fabrication of a large-area and cost-effective PDMS-SERS substrate by sandpaper template-assisted lithography. Analytical Methods, 2019, 11, 4917-4922.	2.7	32
28	SERS optrode as a â€œfishing rodâ€•to direct pre-concentrate analytes from superhydrophobic surfaces. Chemical Communications, 2015, 51, 1965-1968.	4.1	31
29	Single point calibration for semi-quantitative screening based on an internal reference in thin layer chromatography-SERS: the case of Rhodamine B in chili oil. Analytical Methods, 2014, 6, 7218-7223.	2.7	30
30	Rapid screening of rhodamine B in food by hydrogel solid-phase extraction coupled with direct fluorescence detection. Food Chemistry, 2020, 316, 126378.	8.2	28
31	Fluorescent and visual detection of norfloxacin in aqueous solutions with a molecularly imprinted polymer coated paper sensor. Talanta, 2020, 208, 120435.	5.5	26
32	Rapid and direct detection of illicit dyes on tainted fruit peel using a PVA hydrogel surface enhanced Raman scattering substrate. Analytical Methods, 2016, 8, 4816-4820.	2.7	22
33	Killing Two Birds with One Stone: Coating Ag NPs Embedded Filter Paper with Chitosan for Better and Durable Point-of-Use Water Disinfection. ACS Applied Materials & Interfaces, 2018, 10, 38239-38245.	8.0	21
34	Multifunctional Flexible SERS Sensor on a Fixate Gel Pad: Capturing, Derivation, and Selective Picogram Indirect Detection of Explosive 2,2â€²,4,4â€²,6,6â€²-Hexanitrostilbene. ACS Sensors, 2020, 5, 3599-3606.	7.8	21
35	Surface enhanced Raman scattering fiber optic sensor as an ion selective optrode: the example of Cd²⁺detection. RSC Advances, 2014, 4, 64683-64687.	3.6	17
36	Self-Healing 3D Liquid Freestanding Plasmonic Nanoparticle Membrane for Reproducible Surface-Enhanced Raman Spectroscopy Sensing. ACS Applied Nano Materials, 2020, 3, 10014-10021.	5.0	16

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37	Highly sensitive bromide aided SERS detection of furazolidone and 3-amino-2-oxazolidinone residual in aquaculture products. Microchemical Journal, 2021, 169, 106532.	4.5	16
38	Quantification of combined color and shade changes in colorimetry and image analysis: water pH measurement as an example. Analytical Methods, 2018, 10, 3059-3065.	2.7	14
39	Facile preparation of chitosan coated silver nanoparticles embedded cotton fabric for point-of-use water disinfection. Materials Letters, 2020, 277, 128256.	2.6	14
40	Unsupported liquid-state platform for SERS-based determination of triazophos. Mikrochimica Acta, 2020, 187, 502.	5.0	14
41	Self-supporting liquid film as reproducible SERS platform for therapeutic drug monitoring of berberine hydrochloride in human urine. Microchemical Journal, 2021, 165, 106122.	4.5	14
42	Phenotyping Bacteria through a Black-Box Approach: Amplifying Surface-Enhanced Raman Spectroscopy Spectral Differences among Bacteria by Inputting Appropriate Environmental Stress. Analytical Chemistry, 2022, 94, 6791-6798.	6.5	14
43	Highly sensitive SERS detection of residual nitrofurantoin and 1â€aminoâ€hydantoin in aquatic products and feeds. Luminescence, 2022, 37, 82-88.	2.9	13
44	Evaluation of the intrinsic pH sensing performance of surface-enhanced Raman scattering pH probes. Microchemical Journal, 2020, 154, 104565.	4.5	10
45	Screening for malachite green contamination on live fish skin with chewing gum based viscoelastic SERS sensor. Journal of Food and Drug Analysis, 2020, 28, 231-238.	1.9	10
46	Fluorescence immunoassay rapid detection of 2019-nCoV antibody based on the fluorescence resonance energy transfer between graphene quantum dots and Ag@Au nanoparticle. Microchemical Journal, 2022, 173, 107046.	4.5	10
47	Fluorescent microscopic determination of cadmium in water samples with the self-ordered ring of Î±,Î²,Î³,Î´-tetra(5-sulfophenyl)porphine formed on the solid support of glass slides. Analytica Chimica Acta, 2002, 453, 97-104.	5.4	9
48	Free-Standing Membrane Liquid-State Platform for SERS-Based Determination of Norfloxacin in Environmental Samples. Journal of Analysis and Testing, 2021, 5, 217-224.	5.1	9
49	A dual functional cotton swab sensor for rapid on-site naked-eye sensing of nitro explosives on surfaces. Microchemical Journal, 2020, 159, 105398.	4.5	8
50	Potential of removing Pb, Cd, and Cu from aqueous solutions using a novel modified ginkgo leaves biochar by simply one-step pyrolysis. Biomass Conversion and Biorefinery, 0, , 1.	4.6	8
51	Boosting bacteria differentiation efficiency with multidimensional surfaceâ€enhanced Raman scattering: the example of Bacillus cereus. Luminescence, 2022, 37, 1145-1151.	2.9	8
52	Multidimensional Surface-Enhanced Raman Scattering (SERS) Strategy for Tea Differentiation. ACS Food Science & Technology, 2022, 2, 1096-1102.	2.7	7
53	Copper foam in situ loaded with precious metal nanoparticles as transmission SEIRAS substrate for rapid detection of dithiocarbamate pesticides. Analytical Methods, 2020, 12, 3600-3607.	2.7	6
54	Fluorescence microscopic quantification of DNA with Î±,Î²,Î³,Î´-tetrakis[4-(trimethylammonium)phenyl]porphine by a ring-like deposition technique. Analytica Chimica Acta, 2002, 466, 193-200.	5.4	5

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55	Layer-by-Layer Characterization of a Model Biofuel Cell Anode by (in Situ) Vibrational Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 310-316.	3.1	5
56	Fluorescence analysis of cobalt(ii) in water with Î²-cyclodextrin modified Mn-doped ZnS quantum dots. Analytical Methods, 2019, 11, 3829-3836.	2.7	5
57	Decision table in Rough Set as a new chemometric approach for synthesis optimization: Mn-doped ZnS quantum dots as the example. Chemometrics and Intelligent Laboratory Systems, 2018, 182, 124-130.	3.5	4
58	Molecularly imprinted polymers hydrogel for the rapid risk-category-specific screening of food using SPE followed by fluorescence spectrometric detection. Microchemical Journal, 2020, 159, 105408.	4.5	4
59	From childrenâ€™s toy to versatile sensor: One-step doping of Play-Doh with primary amino group for explosive detection both on surfaces and in solution. Analytica Chimica Acta, 2020, 1128, 193-202.	5.4	4
60	Observation and analysis of VOCs in nine prefecture-level cities of Sichuan Province, China. Environmental Monitoring and Assessment, 2020, 192, 511.	2.7	4
61	Quantitative detection of 6-thioguanine in body fluids based on a free-standing liquid membrane SERS substrate. Analytical and Bioanalytical Chemistry, 2022, 414, 1663-1670.	3.7	4
62	Assessing the effect of different pH maintenance situations on bacterial SERS spectra. Analytical and Bioanalytical Chemistry, 2022, 414, 4977-4985.	3.7	4
63	DETERMINATION OF TRACE AMOUNT OF ALUMINUM IN WATER SAMPLES BY A FLUORESCENT MICROSCOPIC SELF-ORDERED RING TECHNIQUE. Analytical Letters, 2002, 35, 2565-2576.	1.8	3
64	Silver nanoparticles on copper foam as substrate for full range mid-infrared surface enhanced infrared absorption spectroscopy in transmission configuration. Microchemical Journal, 2019, 151, 104252.	4.5	3
65	A SERS pH sensor for highly alkaline conditions and its application for pH sensing in aerosol droplets. Analytical Methods, 2022, 14, 1856-1861.	2.7	3
66	Microarray of DNA probes on carboxylate functional beads surface. Science in China Series B: Chemistry, 2000, 43, 435-442.	0.8	2
67	Halogen ions modified Ag NPs for ultrasensitive SERS detection of Polycyclic aromatic hydrocarbons. Luminescence, 0, , .	2.9	2
68	Study on the Photolysis Route of Nano 2,2Ê¹,4,4Ê¹,6,6Ê¹â€“Hexanitrostillbene by Vibrational Spectroscopy. Journal of Analysis and Testing, 2021, 5, 197-202.	5.1	1
69	Special Topic: Resonance Spectroscopy and Spectrometry. Journal of Analysis and Testing, 2021, 5, 195-196.	5.1	1
70	Multilayer Silver Nanoparticles Modified Optical Fiber Tip for High Performance SERS Remote Sensing. ECS Meeting Abstracts, 2010, , .	0.0	0
71	Surface Enhanced Raman Scattering (SERS) Nanoprobes as Cancer Theranostics. , 2016, , 177-204.		0