

Mei-Kun Fan

List of Publications by Year in descending order

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71
papers

3,622
citations

185998

28
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133063

59
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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. <i>Analytica Chimica Acta</i> , 2011, 693, 7-25.	2.6	905
2	A review on recent advances in the applications of surface-enhanced Raman scattering in analytical chemistry. <i>Analytica Chimica Acta</i> , 2020, 1097, 1-29.	2.6	339
3	Silver nanoparticles self assembly as SERS substrates with near single molecule detection limit. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7381.	1.3	224
4	3D printing of a mechanically durable superhydrophobic porous membrane for oil/water separation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12435-12444.	5.2	189
5	Surface-enhanced Raman scattering (SERS) from Au:Ag bimetallic nanoparticles: the effect of the molecular probe. <i>Chemical Science</i> , 2013, 4, 509-515.	3.7	183
6	Multilayer silver nanoparticles-modified optical fiber tip for high performance SERS remote sensing. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2270-2275.	5.3	123
7	Fabrication of SERS Swab for Direct Detection of Trace Explosives in Fingerprints. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21931-21937.	4.0	119
8	Silver Nanoparticles on a Plastic Platform for Localized Surface Plasmon Resonance Biosensing. <i>Analytical Chemistry</i> , 2010, 82, 6350-6352.	3.2	107
9	Ammonia Synthesis from Electrocatalytic N_2 Reduction under Ambient Conditions by Fe_2O_3 Nanorods. <i>ChemCatChem</i> , 2018, 10, 4530-4535.	1.8	95
10	Screening pesticide residues on fruit peels using portable Raman spectrometer combined with adhesive tape sampling. <i>Food Chemistry</i> , 2019, 295, 254-258.	4.2	72
11	Enhanced wetting properties of a polypropylene separator for a lithium-ion battery by hyperthermal hydrogen induced cross-linking of poly(ethylene oxide). <i>Journal of Materials Chemistry A</i> , 2014, 2, 11980-11986.	5.2	68
12	Conductive polymer nanocomposites with hierarchical multi-scale structures via self-assembly of carbon-nanotubes on graphene on polymer-microspheres. <i>Nanoscale</i> , 2014, 6, 7877-7888.	2.8	66
13	Resolving the dilemma of gaining conductivity but losing environmental friendliness in producing polystyrene/graphene composites via optimizing the matrix-filler structure. <i>Green Chemistry</i> , 2013, 15, 821.	4.6	61
14	Surface-enhanced Raman spectroscopy for on-site analysis: A review of recent developments. <i>Luminescence</i> , 2020, 35, 808-820.	1.5	61
15	Modulation of potential barrier heights in Co_3O_4/SnO_2 heterojunctions for highly H_2 -selective sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 694-700.	4.0	55
16	Development of multicolor carbon nanoparticles for cell imaging. <i>Talanta</i> , 2013, 108, 59-65.	2.9	54
17	Surface-enhanced Raman scattering (SERS) optodes for multiplexed on-chip sensing of Nile blue A and oxazine 720. <i>Lab on a Chip</i> , 2012, 12, 1554.	3.1	49
18	Dual functional PDMS sponge SERS substrate for the on-site detection of pesticides both on fruit surfaces and in juice. <i>Analyst</i> , 2018, 143, 2689-2695.	1.7	49

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19	Ag decorated sandpaper as flexible SERS substrate for direct swabbing sampling. <i>Materials Letters</i> , 2014, 133, 57-59.	1.3	48
20	Self-Assembled Au Nanoparticles as Substrates for Surface-Enhanced Vibrational Spectroscopy: Optimization and Electrochemical Stability. <i>ChemPhysChem</i> , 2008, 9, 1899-1907.	1.0	43
21	Statistical Correlation Between SERS Intensity and Nanoparticle Cluster Size. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16596-16605.	1.5	41
22	Separation, identification and fast determination of organophosphate pesticide methidathion in tea leaves by thin layer chromatography-surface-enhanced Raman scattering. <i>Analytical Methods</i> , 2013, 5, 5560.	1.3	41
23	A silver nanoparticle embedded hydrogel as a substrate for surface contamination analysis by surface-enhanced Raman scattering. <i>Analyst</i> , 2014, 139, 5283-5289.	1.7	38
24	Silver-nanoparticles-loaded chitosan foam as a flexible SERS substrate for active collecting analytes from both solid surface and solution. <i>Talanta</i> , 2019, 191, 241-247.	2.9	38
25	Facile preparation of silver nanoparticle decorated chitosan cryogels for point-of-use water disinfection. <i>Science of the Total Environment</i> , 2018, 613-614, 1317-1323.	3.9	36
26	Detection of Buried Explosives Using a Surface-Enhanced Raman Scattering (SERS) Substrate Tailored for Miniaturized Spectrometers. <i>ACS Sensors</i> , 2020, 5, 2933-2939.	4.0	36
27	Facile fabrication of a large-area and cost-effective PDMS-SERS substrate by sandpaper template-assisted lithography. <i>Analytical Methods</i> , 2019, 11, 4917-4922.	1.3	32
28	SERS optrode as a "fishing rod" to direct pre-concentrate analytes from superhydrophobic surfaces. <i>Chemical Communications</i> , 2015, 51, 1965-1968.	2.2	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. <i>Analytical Methods</i> , 2014, 6, 7218-7223.	1.3	30
30	Rapid screening of rhodamine B in food by hydrogel solid-phase extraction coupled with direct fluorescence detection. <i>Food Chemistry</i> , 2020, 316, 126378.	4.2	28
31	Fluorescent and visual detection of norfloxacin in aqueous solutions with a molecularly imprinted polymer coated paper sensor. <i>Talanta</i> , 2020, 208, 120435.	2.9	26
32	Rapid and direct detection of illicit dyes on tainted fruit peel using a PVA hydrogel surface enhanced Raman scattering substrate. <i>Analytical Methods</i> , 2016, 8, 4816-4820.	1.3	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. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38239-38245.	4.0	21
34	Multifunctional Flexible SERS Sensor on a Fixate Gel Pad: Capturing, Derivation, and Selective Picogram Indirect Detection of Explosive 2,2,4,4,6,6-Hexanitrostilbene. <i>ACS Sensors</i> , 2020, 5, 3599-3606.	4.0	21
35	Surface enhanced Raman scattering fiber optic sensor as an ion selective optrode: the example of Cd ²⁺ detection. <i>RSC Advances</i> , 2014, 4, 64683-64687.	1.7	17
36	Self-Healing 3D Liquid Freestanding Plasmonic Nanoparticle Membrane for Reproducible Surface-Enhanced Raman Spectroscopy Sensing. <i>ACS Applied Nano Materials</i> , 2020, 3, 10014-10021.	2.4	16

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37	Highly sensitive bromide aided SERS detection of furazolidone and 3-amino-2-oxazolidinone residual in aquaculture products. <i>Microchemical Journal</i> , 2021, 169, 106532.	2.3	16
38	Quantification of combined color and shade changes in colorimetry and image analysis: water pH measurement as an example. <i>Analytical Methods</i> , 2018, 10, 3059-3065.	1.3	14
39	Facile preparation of chitosan coated silver nanoparticles embedded cotton fabric for point-of-use water disinfection. <i>Materials Letters</i> , 2020, 277, 128256.	1.3	14
40	Unsupported liquid-state platform for SERS-based determination of triazophos. <i>Mikrochimica Acta</i> , 2020, 187, 502.	2.5	14
41	Self-supporting liquid film as reproducible SERS platform for therapeutic drug monitoring of berberine hydrochloride in human urine. <i>Microchemical Journal</i> , 2021, 165, 106122.	2.3	14
42	Phenotyping Bacteria through a Black-Box Approach: Amplifying Surface-Enhanced Raman Spectroscopy Spectral Differences among Bacteria by Inputting Appropriate Environmental Stress. <i>Analytical Chemistry</i> , 2022, 94, 6791-6798.	3.2	14
43	Highly sensitive SERS detection of residual nitrofurantoin and 4-amino-2-hydantoin in aquatic products and feeds. <i>Luminescence</i> , 2022, 37, 82-88.	1.5	13
44	Evaluation of the intrinsic pH sensing performance of surface-enhanced Raman scattering pH probes. <i>Microchemical Journal</i> , 2020, 154, 104565.	2.3	10
45	Screening for malachite green contamination on live fish skin with chewing gum based viscoelastic SERS sensor. <i>Journal of Food and Drug Analysis</i> , 2020, 28, 231-238.	0.9	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. <i>Microchemical Journal</i> , 2022, 173, 107046.	2.3	10
47	Fluorescent microscopic determination of cadmium in water samples with the self-ordered ring of β , β' , β'' , β''' -tetra(5-sulfophenyl)porphine formed on the solid support of glass slides. <i>Analytica Chimica Acta</i> , 2002, 453, 97-104.	2.6	9
48	Free-Standing Membrane Liquid-State Platform for SERS-Based Determination of Norfloxacin in Environmental Samples. <i>Journal of Analysis and Testing</i> , 2021, 5, 217-224.	2.5	9
49	A dual functional cotton swab sensor for rapid on-site naked-eye sensing of nitro explosives on surfaces. <i>Microchemical Journal</i> , 2020, 159, 105398.	2.3	8
50	Potential of removing Pb, Cd, and Cu from aqueous solutions using a novel modified ginkgo leaves biochar by simply one-step pyrolysis. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	8
51	Boosting bacteria differentiation efficiency with multidimensional surface-enhanced Raman scattering: the example of <i>Bacillus cereus</i> . <i>Luminescence</i> , 2022, 37, 1145-1151.	1.5	8
52	Multidimensional Surface-Enhanced Raman Scattering (SERS) Strategy for Tea Differentiation. <i>ACS Food Science & Technology</i> , 2022, 2, 1096-1102.	1.3	7
53	Copper foam <i>in situ</i> loaded with precious metal nanoparticles as transmission SEIRAS substrate for rapid detection of dithiocarbamate pesticides. <i>Analytical Methods</i> , 2020, 12, 3600-3607.	1.3	6
54	Fluorescence microscopic quantification of DNA with β , β' , β'' , β''' -tetrakis[4-(trimethylammonium)phenyl]porphine by a ring-like deposition technique. <i>Analytica Chimica Acta</i> , 2002, 466, 193-200.	2.6	5

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55	Layer-by-Layer Characterization of a Model Biofuel Cell Anode by (in Situ) Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011, 115, 310-316.	1.5	5
56	Fluorescence analysis of cobalt(ii) in water with β -cyclodextrin modified Mn-doped ZnS quantum dots. <i>Analytical Methods</i> , 2019, 11, 3829-3836.	1.3	5
57	Decision table in Rough Set as a new chemometric approach for synthesis optimization: Mn-doped ZnS quantum dots as the example. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 182, 124-130.	1.8	4
58	Molecularly imprinted polymers hydrogel for the rapid risk-category-specific screening of food using SPE followed by fluorescence spectrometric detection. <i>Microchemical Journal</i> , 2020, 159, 105408.	2.3	4
59	From children's toy to versatile sensor: One-step doping of Play-Doh with primary amino group for explosive detection both on surfaces and in solution. <i>Analytica Chimica Acta</i> , 2020, 1128, 193-202.	2.6	4
60	Observation and analysis of VOCs in nine prefecture-level cities of Sichuan Province, China. <i>Environmental Monitoring and Assessment</i> , 2020, 192, 511.	1.3	4
61	Quantitative detection of 6-thioguanine in body fluids based on a free-standing liquid membrane SERS substrate. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 1663-1670.	1.9	4
62	Assessing the effect of different pH maintenance situations on bacterial SERS spectra. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4977-4985.	1.9	4
63	DETERMINATION OF TRACE AMOUNT OF ALUMINUM IN WATER SAMPLES BY A FLUORESCENT MICROSCOPIC SELF-ORDERED RING TECHNIQUE. <i>Analytical Letters</i> , 2002, 35, 2565-2576.	1.0	3
64	Silver nanoparticles on copper foam as substrate for full range mid-infrared surface enhanced infrared absorption spectroscopy in transmission configuration. <i>Microchemical Journal</i> , 2019, 151, 104252.	2.3	3
65	A SERS pH sensor for highly alkaline conditions and its application for pH sensing in aerosol droplets. <i>Analytical Methods</i> , 2022, 14, 1856-1861.	1.3	3
66	Microarray of DNA probes on carboxylate functional beads surface. <i>Science in China Series B: Chemistry</i> , 2000, 43, 435-442.	0.8	2
67	Halogen ions modified Ag NPs for ultrasensitive SERS detection of Polycyclic aromatic hydrocarbons. <i>Luminescence</i> , 0, , .	1.5	2
68	Study on the Photolysis Route of Nano 2,2,4,4,6,6-Hexanitrostilbene by Vibrational Spectroscopy. <i>Journal of Analysis and Testing</i> , 2021, 5, 197-202.	2.5	1
69	Special Topic: Resonance Spectroscopy and Spectrometry. <i>Journal of Analysis and Testing</i> , 2021, 5, 195-196.	2.5	1
70	Multilayer Silver Nanoparticles Modified Optical Fiber Tip for High Performance SERS Remote Sensing. <i>ECS Meeting Abstracts</i> , 2010, , .	0.0	0
71	Surface Enhanced Raman Scattering (SERS) Nanoprobes as Cancer Theranostics. , 2016, , 177-204.		0