

Liangbao Yang

List of Publications by Year in descending order

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112
papers

4,776
citations

71102

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106344

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114
all docs

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docs citations

114
times ranked

5097
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal coordination induced SERS nanoprobe for sensitive and selective detection of histamine in serum. <i>Talanta</i> , 2022, 237, 122913.	5.5	14
2	Controlling the Shrinkage of 3D Hot Spot Droplets as a Microreactor for Quantitative SERS Detection of Anticancer Drugs in Serum Using a Handheld Raman Spectrometer. <i>Analytical Chemistry</i> , 2022, 94, 4831-4840.	6.5	17
3	Construction of Ag nanowire@Au nanoparticle nano nests with densely stacked small gaps for actively trapping molecules to realize diversity SERS detection. <i>Analyst</i> , The, 2022, , .	3.5	2
4	Intelligent and robust DNA robots capable of swarming into leakless nonlinear amplification in response to a trigger. <i>Nanoscale Horizons</i> , 2022, 7, 634-643.	8.0	3
5	Insight into the Heterogeneity of Longitudinal Plasmonic Field in a Nanocavity Using an Intercalated Two-Dimensional Atomic Crystal Probe with a $\sim 1/47$ Å... Resolution. <i>Journal of the American Chemical Society</i> , 2022, 144, 13174-13183.	13.7	4
6	Natural & 3Ånm Interbedded Gaps to Trap Target Molecules and Provide an Enhanced Raman Spectroscopy Method. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	7
7	Synthesis of gold nanorods with varied length-diameter ratios-applications using SERS for the detection of drugs. <i>Journal of Dispersion Science and Technology</i> , 2021, 42, 485-492.	2.4	3
8	General Surface-Enhanced Raman Spectroscopy Method for Actively Capturing Target Molecules in Small Gaps. <i>Journal of the American Chemical Society</i> , 2021, 143, 7769-7776.	13.7	86
9	Field determination of hazardous chemicals in public security by using a hand-held Raman spectrometer and a deep architecture-search network. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 258, 119871.	3.9	9
10	Ethanol-extraction SERS strategy for highly sensitive detection of poisons in oily matrix. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 259, 119883.	3.9	4
11	In-situ SERS readout strategy to improve the reliability of beta-galactosidase activity assay based on X-gal staining in shortening incubation times. <i>Talanta</i> , 2021, 234, 122689.	5.5	3
12	The rapid SERS detection of succinylcholine chloride in human plasma is based on the high affinity between quaternary ammonium salt structures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 263, 120172.	3.9	1
13	Exploring the utility of Au@PVP-polyamide-Triton X-114 for SERS tracking of extracellular senescence associated-beta-galactosidase activity. <i>Analytical Methods</i> , 2021, 13, 2087-2091.	2.7	3
14	Construction of Optimal SERS Hotspots Based on Capturing the Spike Receptor-Binding Domain (RBD) of SARS-CoV-2 for Highly Sensitive and Specific Detection by a Fish Model. <i>Analytical Chemistry</i> , 2021, 93, 16086-16095.	6.5	22
15	Controlling Plasmon-Aided Reduction of <i>p</i> -Nitrothiophenol by Tuning the Illumination Wavelength. <i>ACS Catalysis</i> , 2021, 11, 14898-14905.	11.2	14
16	A novel SERS selective detection sensor for trace trinitrotoluene based on meisenheimer complex of monoethanolamine molecule. <i>Talanta</i> , 2020, 218, 121157.	5.5	16
17	Cys-functionalized AuNP substrates for improved sensing of the marine toxin STX by dynamic surface-enhanced Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 4609-4617.	3.7	24
18	Elucidation of leak-resistance DNA hybridization chain reaction with universality and extensibility. <i>Nucleic Acids Research</i> , 2020, 48, 2220-2231.	14.5	34

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19	Assembling PVP-Au NPs as portable chip for sensitive detection of cyanide with surface-enhanced Raman spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2863-2871.	3.7	11
20	Development of surface-enhanced Raman spectroscopy application for determination of illicit drugs: Towards a practical sensor. <i>Talanta</i> , 2019, 191, 1-10.	5.5	81
21	Functionalized acupuncture needle as a SERS-active platform for rapid and sensitive determination of adenosine triphosphate. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 5669-5679.	3.7	12
22	Metal coordination-functionalized Au@Ag bimetal SERS nanoprobe for sensitive detection of glutathione. <i>Analyst, The</i> , 2019, 144, 421-425.	3.5	24
23	High-affinity Fe ₃ O ₄ /Au probe with synergetic effect of surface plasmon resonance and charge transfer enabling improved SERS sensing of dopamine in biofluids. <i>Analyst, The</i> , 2019, 144, 4526-4533.	3.5	9
24	A long-period and high-stability three-dimensional surface-enhanced Raman scattering hotspot matrix. <i>Chemical Communications</i> , 2019, 55, 8647-8650.	4.1	17
25	Gold Nanoparticle-Decorated Silver Needle for Surface-Enhanced Raman Spectroscopy Screening of Residual Malachite Green in Aquaculture Products. <i>ACS Applied Nano Materials</i> , 2019, 2, 2752-2757.	5.0	33
26	Cationic surfactant regulated synthesis of Au nanorods for sensitive detection of negatively charged colorants by surface-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 809-817.	2.5	6
27	Highly sensitive detection of an antidiabetic drug as illegal additives in health products using solvent microextraction combined with surface-enhanced Raman spectroscopy. <i>Analyst, The</i> , 2019, 144, 7406-7411.	3.5	13
28	Developing cysteamine-modified SERS substrate for detection of acidic pigment with weak surface affinity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 212, 293-299.	3.9	15
29	Rapid and sensitive surface-enhanced resonance Raman spectroscopy detection for norepinephrine in biofluids. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 314-321.	2.5	10
30	Amphiphilic Functionalized Acupuncture Needle as SERS Sensor for In Situ Multiphase Detection. <i>Analytical Chemistry</i> , 2018, 90, 3826-3832.	6.5	43
31	Sodium Chloride Crystal-Induced SERS Platform for Controlled Highly Sensitive Detection of Illicit Drugs. <i>Chemistry - A European Journal</i> , 2018, 24, 4800-4804.	3.3	23
32	Natural Deposition Strategy for Interfacial, Self-Assembled, Large-Scale, Densely Packed, Monolayer Film with Ligand-Exchanged Gold Nanorods for In Situ Surface-Enhanced Raman Scattering Drug Detection. <i>Chemistry - A European Journal</i> , 2018, 24, 4094-4102.	3.3	45
33	Probing catecholamine neurotransmitters based on iron-coordination surface-enhanced resonance Raman spectroscopy label. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 350-358.	7.8	32
34	Sensitive and simple determination of zwitterionic morphine in human urine based on liquid-liquid micro-extraction coupled with surface-enhanced Raman spectroscopy. <i>Talanta</i> , 2018, 186, 427-432.	5.5	38
35	Highly Selective and Repeatable Surface-Enhanced Resonance Raman Scattering Detection for Epinephrine in Serum Based on Interface Self-Assembled 2D Nanoparticles Arrays. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7772-7779.	8.0	56
36	A capillary force-induced Au nanoparticle@Ag nanowire single hot spot platform for SERS analysis. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3229-3237.	5.5	29

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37	Optimal Hotspots of Dynamic Surfaced-Enhanced Raman Spectroscopy for Drugs Quantitative Detection. <i>Analytical Chemistry</i> , 2017, 89, 4875-4881.	6.5	77
38	Functionalized Acupuncture Needle as Surface-Enhanced Resonance Raman Spectroscopy Sensor for Rapid and Sensitive Detection of Dopamine in Serum and Cerebrospinal Fluid. <i>Chemistry - A European Journal</i> , 2017, 23, 14278-14285.	3.3	33
39	Real-time monitoring of plasmon-induced proton transfer of hypoxanthine in serum. <i>Nanoscale</i> , 2017, 9, 12307-12310.	5.6	12
40	Designing of ordered two-dimensional gold nanoparticles film for cocaine detection in human urine using surface-enhanced Raman spectroscopy. <i>Talanta</i> , 2017, 164, 693-699.	5.5	53
41	Time-dependent SERS spectra monitoring the dynamic adsorption behavior of bipyridine isomerides combined with bianalyte method. <i>Analyst, The</i> , 2016, 141, 5189-5194.	3.5	12
42	Designing of a novel gold nanodumbbells SERS substrate for detection of prohibited colorants in drinks. <i>Applied Surface Science</i> , 2016, 366, 181-186.	6.1	45
43	Surface-Enhanced Raman Spectroscopy on Liquid Interfacial Nanoparticle Arrays for Multiplex Detecting Drugs in Urine. <i>Analytical Chemistry</i> , 2016, 88, 8145-8151.	6.5	85
44	Three-dimensional SERS hot spots for chemical sensing: Towards developing a practical analyzer. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 364-372.	11.4	69
45	Monitoring the inorganic chemical reaction by surface-enhanced Raman spectroscopy: A case of Fe ³⁺ to Fe ²⁺ conversion. <i>Talanta</i> , 2016, 146, 452-456.	5.5	10
46	Highly sensitive on-site detection of drugs adulterated in botanical dietary supplements using thin layer chromatography combined with dynamic surface enhanced Raman spectroscopy. <i>Talanta</i> , 2016, 146, 351-357.	5.5	53
47	Highly-reproducible Raman scattering of NaYF ₄ :Yb,Er@SiO ₂ @Ag for methylamphetamine detection under near-infrared laser excitation. <i>Analyst, The</i> , 2015, 140, 5268-5275.	3.5	18
48	Fabrication of Au nanorod-coated Fe ₃ O ₄ microspheres as SERS substrate for pesticide analysis by near-infrared excitation. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 470-475.	2.5	64
49	Detection and Direct Readout of Drugs in Human Urine Using Dynamic Surface-Enhanced Raman Spectroscopy and Support Vector Machines. <i>Analytical Chemistry</i> , 2015, 87, 2937-2944.	6.5	154
50	A dynamic surface enhanced Raman spectroscopy method for ultra-sensitive detection: from the wet state to the dry state. <i>Chemical Society Reviews</i> , 2015, 44, 2837-2848.	38.1	162
51	Three-dimensional hotspots in evaporating nanoparticle sols for ultrahigh Raman scattering: solid-liquid interface effects. <i>Nanoscale</i> , 2015, 7, 6619-6626.	5.6	36
52	Hybrid single nanoreactor for in situ SERS monitoring of plasmon-driven and small Au nanoparticles catalyzed reactions. <i>Chemical Communications</i> , 2015, 51, 11394-11397.	4.1	63
53	Non-ultraviolet photocatalytic kinetics of NaYF ₄ :Yb,Tm@TiO ₂ /Ag core@comby shell nanostructures. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14642-14650.	10.3	52
54	Based on time and spatial-resolved SERS mapping strategies for detection of pesticides. <i>Talanta</i> , 2015, 141, 1-7.	5.5	27

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55	Raman Spectroscopy as a Superior Tool To Understand the Synthetic Pathway of Cu ₂ FeSnS ₄ Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2690-2694.	2.0	21
56	Three-Dimensional Surface-Enhanced Raman Scattering Hotspots in Spherical Colloidal Superstructure for Identification and Detection of Drugs in Human Urine. <i>Analytical Chemistry</i> , 2015, 87, 4821-4828.	6.5	86
57	Portable Kit for Identification and Detection of Drugs in Human Urine Using Surface-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2015, 87, 9500-9506.	6.5	106
58	Designing of the functional paper-based surface-enhanced Raman spectroscopy substrates for colorants detection. <i>Materials Research Bulletin</i> , 2015, 63, 199-204.	5.2	58
59	Unravelling the Relationship between Raman Enhancement and Photocatalytic Activity on Single Anisotropic Au Microplates. <i>Chemistry - A European Journal</i> , 2014, 20, 10414-10424.	3.3	8
60	Individual SERS substrate with core-satellite structure decorated in shrinkable hydrogel template for pesticide detection. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 68-74.	2.5	24
61	Polystyrene/Ag nanoparticles as dynamic surface-enhanced Raman spectroscopy substrates for sensitive detection of organophosphorus pesticides. <i>Talanta</i> , 2014, 127, 269-275.	5.5	51
62	Highly sensitive in situ monitoring of catalytic reactions by surface enhancement Raman spectroscopy on multifunctional Fe ₃ O ₄ /C/Au NPs. <i>Nanoscale</i> , 2014, 6, 7954-7958.	5.6	53
63	Raman scattering and plasmonic photocatalysis of single particles of NaYF ₄ :Yb,Er@Ag under near-infrared laser excitation. <i>Analyst</i> , The, 2014, 139, 5983-5988.	3.5	14
64	Monitoring plasmon-driven surface catalyzed reactions in situ using time-dependent surface-enhanced Raman spectroscopy on single particles of hierarchical peony-like silver microflowers. <i>Nanoscale</i> , 2014, 6, 8612-8616.	5.6	72
65	Sensitively monitoring photodegradation process of organic dye molecules by surface-enhanced Raman spectroscopy based on Fe ₃ O ₄ @SiO ₂ @TiO ₂ @Ag particle. <i>Analyst</i> , The, 2014, 139, 5509-5515.	3.5	23
66	Design and fabrication of surface-enhanced Raman scattering substrate from DNA-gold nanoparticles assembly with 2-3 nm interparticle gap. <i>RSC Advances</i> , 2014, 4, 45207-45213.	3.6	6
67	Progress in multifunctional surface-enhanced Raman scattering substrate for detection. <i>RSC Advances</i> , 2014, 4, 49635-49646.	3.6	58
68	Transformation of thiolated chitosan-templated gold nanoparticles to huge microcubes. <i>Materials Research Bulletin</i> , 2014, 53, 89-95.	5.2	6
69	Three-Dimensional and Time-Ordered Surface-Enhanced Raman Scattering Hotspot Matrix. <i>Journal of the American Chemical Society</i> , 2014, 136, 5332-5341.	13.7	293
70	A simple approach for the synthesis of Ag-coated Ni@TiO ₂ nanocomposites as recyclable photocatalysts and SERS substrate to monitor catalytic degradation of dye molecules. <i>Materials Research Bulletin</i> , 2014, 53, 205-210.	5.2	16
71	A novel paper rag as ¹³ C-SERS substrate for detection of pesticide residues at various peels. <i>Talanta</i> , 2014, 128, 117-124.	5.5	130
72	Surface-enhanced Raman evidence for Rhodamine 6G and its derivative with different adsorption geometry to colloidal silver nanoparticle. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 999-1003.	2.5	15

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73	Assembly of polymer-templated gold nanostructures with high reproducibility into a monolayer film SERS substrate with 5 nm gaps for pesticide trace detection. <i>Analyst, The</i> , 2013, 138, 5832.	3.5	72
74	Facile fabrication of leafy spikes-like silver dendrite crystals for SERS substrate. <i>Materials Research Bulletin</i> , 2013, 48, 4125-4133.	5.2	7
75	Synthesis and SERS Performance of a Recyclable SERS Substrate Based on Ag NPs Coated TiO ₂ NT Arrays. <i>Integrated Ferroelectrics</i> , 2013, 147, 17-23.	0.7	6
76	Ag nanoparticles as multifunctional SERS substrate for the adsorption, degradation and detection of dye molecules. <i>Applied Surface Science</i> , 2013, 265, 346-351.	6.1	25
77	A new-type dynamic SERS method for ultrasensitive detection. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 21-28.	2.5	51
78	The time-resolved D-SERS vibrational spectra of pesticide thiram. <i>Talanta</i> , 2013, 117, 39-44.	5.5	28
79	A shrinking strategy for creating dynamic SERS hot spots on the surface of thermosensitive polymer nanospheres. <i>Chemical Communications</i> , 2013, 49, 5025.	4.1	43
80	Cetylpyridinium Chloride Activated Trinitrotoluene Explosive Lights Up Robust and Ultrahigh Surface-Enhanced Resonance Raman Scattering in a Silver Sol. <i>Chemistry - A European Journal</i> , 2013, 19, 8789-8796.	3.3	39
81	SERS and OWGS detection of dynamic trapping molecular TNT based on a functional self-assembly Au monolayer film. <i>Analyst, The</i> , 2013, 138, 1858.	3.5	26
82	Sea-urchin-like Fe ₃ O ₄ @C@Ag particles: an efficient SERS substrate for detection of organic pollutants. <i>Nanoscale</i> , 2013, 5, 5887.	5.6	89
83	Capillarity-constructed reversible hot spots for molecular trapping inside silver nanorod arrays light up ultrahigh SERS enhancement. <i>Chemical Science</i> , 2013, 4, 3490.	7.4	62
84	Highly uniform and optical visualization of SERS substrate for pesticide analysis based on Au nanoparticles grafted on dendritic γ -Fe ₂ O ₃ . <i>Nanoscale</i> , 2013, 5, 11193.	5.6	52
85	Designing and fabricating of surface-enhanced Raman scattering substrate with high density hot spots by polyaniline template-assisted self-assembly. <i>Nanoscale</i> , 2012, 4, 6449.	5.6	43
86	Plasma- and anneal-assisted hybridization of SWCNT-Au network for rapid and high-sensitive electrical detection of antibody-antigen interactions. <i>Journal of Materials Chemistry</i> , 2012, 22, 6139.	6.7	4
87	Functionalized shell-isolated nanoparticle-enhanced Raman spectroscopy for selective detection of trinitrotoluene. <i>Analyst, The</i> , 2012, 137, 4644.	3.5	60
88	Ultrasensitive optical detection of trinitrotoluene by ethylenediamine-capped gold nanoparticles. <i>Analytica Chimica Acta</i> , 2012, 744, 92-98.	5.4	53
89	Sensitive and selective SERS probe for trivalent chromium detection using citrate attached gold nanoparticles. <i>Nanoscale</i> , 2012, 4, 6442.	5.6	67
90	A displacement principle for mercury detection by optical waveguide and surface enhanced Raman spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2012, 386, 451-455.	9.4	38

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91	Study on the synthesis of Ag/AgCl nanoparticles and their photocatalytic properties. <i>Materials Research Bulletin</i> , 2012, 47, 3452-3458.	5.2	38
92	Speedy and surfactant-free in situ synthesis of nickel/Ag nanocomposites for reproducible SERS substrates. <i>Journal of Materials Chemistry</i> , 2012, 22, 19932.	6.7	33
93	Solvent-induced hot spot switch on silver nanorod enhanced Raman spectroscopy. <i>Analyst</i> , 2012, 137, 1547.	3.5	44
94	Clean and reproducible SERS substrates for high sensitive detection by solid phase synthesis and fabrication of Ag-coated Fe ₃ O ₄ microspheres. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 848-856.	2.5	65
95	Multifunctional TiO ₂ -Coated Ag Nanowire Arrays as Recyclable SERS Substrates for the Detection of Organic Pollutants. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3176-3182.	2.0	66
96	In Situ Photoreduced Silver Nanoparticles on Cysteine: An Insight into the Origin of Chirality. <i>Chemistry - A European Journal</i> , 2012, 18, 8037-8041.	3.3	29
97	Molecular sensitivity of DNA-Ag-PATP hybrid on optical activity for ultratrace mercury analysis. <i>Chemical Communications</i> , 2011, 47, 9360.	4.1	36
98	Metastable state nanoparticle-enhanced Raman spectroscopy for highly sensitive detection. <i>Chemical Communications</i> , 2011, 47, 3583.	4.1	64
99	Multifunctional Au-Coated TiO ₂ Nanotube Arrays as Recyclable SERS Substrates for Multifold Organic Pollutants Detection. <i>Advanced Functional Materials</i> , 2010, 20, 2815-2824.	14.9	492
100	Ultrasensitive SERS Detection of TNT by Imprinting Molecular Recognition Using a New Type of Stable Substrate. <i>Chemistry - A European Journal</i> , 2010, 16, 12683-12693.	3.3	151
101	Synthesis of flake-like crystals by a hydrothermal process. <i>Crystal Research and Technology</i> , 2009, 44, 409-413.	1.3	3
102	Growth of star-shaped PbWO ₄ crystal assemblies in TSA solution and their optical properties. <i>Crystal Research and Technology</i> , 2009, 44, 736-740.	1.3	1
103	Morphogenesis of CuI Nanocrystals by a TSA-Assisted Photochemical Route: Synthesis, Optical Properties, and Growth Mechanism. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 1376-1384.	2.0	11
104	Morphogenesis and Crystallization of ZnS Microspheres by a Soft Template-Assisted Hydrothermal Route: Synthesis, Growth Mechanism, and Oxygen Sensitivity. <i>Chemistry - an Asian Journal</i> , 2009, 4, 174-180.	3.3	17
105	Hydrothermal growth of ZnS microspheres and their temperature-dependent luminescence properties. <i>Crystal Research and Technology</i> , 2008, 43, 1022-1025.	1.3	10
106	A facile method to synthesize spherical PbS and their shape evolution process. <i>Crystal Research and Technology</i> , 2008, 43, 1026-1029.	1.3	3
107	Nanosized barium carbonate particles stabilized by cetyltrimethylammonium bromide at the water/hexamethylene interface. <i>Crystal Research and Technology</i> , 2007, 42, 886-889.	1.3	38
108	Synthesis of Controllable-Size Core-Shell Se@Ag and Se@Au Nanoparticles in UV-Irradiated TSA Solution. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1128-1134.	2.0	13

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109	Oriented Attachment Growth of Three-Dimensionally Packed Trigonal Selenium Microspheres into Large-Area Wire Networks. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 4438-4444.	2.0	14
110	Facile Size-Controlled Synthesis of Silver Nanoparticles in UV-Irradiated Tungstosilicate Acid Solution. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5300-5308.	3.1	41
111	Size- and Shape-Controlled Synthesis and Assembly of a Silver Nanocomplex in UV-Irradiated TSA Solution. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 4658-4664.	2.0	12
112	Insight into ultrasensitive and high-stability flocculation-enhanced Raman spectroscopy for the <i>in situ</i> noninvasive probing of cupping effect substances. <i>Analyst</i> , 2007, 132, 1000-1005.	3.5	1