

Stuart Farquharson

List of Publications by Year in descending order

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48
papers

1,291
citations

331670

21
h-index

454955

30
g-index

48
all docs

48
docs citations

48
times ranked

1326
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of 5-fluorouracil in saliva using surface-enhanced Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 208-212.	2.5	125
2	Detection of Drugs of Abuse in Saliva by Surface-Enhanced Raman Spectroscopy (SERS). <i>Applied Spectroscopy</i> , 2011, 65, 1004-1008.	2.2	100
3	Rapid Analysis of Cocaine in Saliva by Surface-Enhanced Raman Spectroscopy. <i>Journal of Analytical & Bioanalytical Techniques</i> , 2015, 6, 1-5.	0.6	84
4	Rapid Detection and Identification of Overdose Drugs in Saliva by Surface-Enhanced Raman Scattering Using Fused Gold Colloids. <i>Pharmaceutics</i> , 2011, 3, 425-439.	4.5	83
5	Rapid Dipicolinic Acid Extraction from Bacillus Spores Detected by Surface-Enhanced Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2004, 58, 351-354.	2.2	64
6	Surface enhancement factors for Raman scattering at silver electrodes. Role of adsorbate-surface interactions and electronic structure. <i>Journal of Chemical Physics</i> , 1985, 82, 4867-4874.	3.0	63
7	Surface-Enhanced Raman Spectra of VX and its Hydrolysis Products. <i>Applied Spectroscopy</i> , 2005, 59, 654-660.	2.2	59
8	Surface-enhanced Raman Spectral Measurements of 5-Fluorouracil in Saliva. <i>Molecules</i> , 2008, 13, 2608-2627.	3.8	59
9	Detecting Bacillus cereus spores on a mail sorting system using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 82-86.	2.5	48
10	Rapid extraction and detection of trace Chlorpyrifos-methyl in orange juice by surface-enhanced Raman spectroscopy. <i>Sensing and Instrumentation for Food Quality and Safety</i> , 2010, 4, 101-107.	1.5	46
11	Simultaneous Chemical Separation and Surface-Enhanced Raman Spectral Detection Using Silver-Doped Sol-Gels. <i>Applied Spectroscopy</i> , 2003, 57, 479-482.	2.2	43
12	Detection of codeine and fentanyl in saliva, blood plasma and whole blood in 5-minutes using a SERS flow-separation strip. <i>Analyst</i> , 2019, 144, 5449-5454.	3.5	41
13	Drug Stability Analysis by Raman Spectroscopy. <i>Pharmaceutics</i> , 2014, 6, 651-662.	4.5	35
14	A Surface-Enhanced Raman Spectral Library of Important Drugs Associated With Point-of-Care and Field Applications. <i>Frontiers in Chemistry</i> , 2019, 7, 706.	3.6	34
15	Detection of 5-fluorouracil in saliva using surface-enhanced Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2005, 38, 79-84.	2.2	30
16	Observation of a reversible adsorbed redox couple using surface-enhanced Raman scattering: pentaammine(pyridine)osmium(III)/(II) at silver electrodes. <i>Journal of the American Chemical Society</i> , 1983, 105, 3350-3351.	13.7	29
17	Observation of surface-enhanced Raman scattering for transition-metal hexaammine cations at the outer Helmholtz plane: Implications for enhancement mechanisms at electrochemical interfaces. <i>Journal of Chemical Physics</i> , 1984, 80, 1363-1365.	3.0	27
18	Quantitative Measurements of Codeine and Fentanyl on a Surface-Enhanced Raman-Active Pad Test. <i>Molecules</i> , 2019, 24, 2578.	3.8	26

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19	Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Transition-metal isothiocyanate adsorbates at silver electrodes. <i>The Journal of Physical Chemistry</i> , 1984, 88, 4701-4706.	2.9	24
20	Surface-enhanced Raman spectra of melamine and other chemicals using a 1550 nm (retina-safe) laser. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 701-705.	2.5	24
21	Surface-enhanced Raman spectroscopy of pentaammineosmium (III)/(II) and pentaammineruthenium (II) containing pyridine, pyrazine or 4,4'-bipyridine ligands at silver electrodes: vibrational assignments. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1984, 40, 907-921.	0.1	22
22	Inspection of pesticide residues on food by surface-enhanced Raman spectroscopy. , 2004, 5271, 28.		21
23	Selective detection of 1000 B. anthracis spores within 15 minutes using a peptide functionalized SERS assay. <i>Analyst</i> , The, 2014, 139, 6366-6370.	3.5	19
24	Analysis of Twenty-Two Performance Properties of Diesel, Gasoline, and Jet Fuels Using a Field-Portable Near-Infrared (NIR) Analyzer. <i>Applied Spectroscopy</i> , 2016, 70, 746-755.	2.2	19
25	Analysis of pesticides on or in fruit by surface-enhanced Raman spectroscopy. , 2004, , .		16
26	Rapid Identification of Buprenorphine in Patient Saliva. <i>Journal of Analytical & Bioanalytical Techniques</i> , 2017, 08, .	0.6	13
27	Detecting Chemical Agents and Their Hydrolysis Products in Water. , 2006, , 447-460.		13
28	pH dependence of methyl phosphonic acid, dipicolinic acid, and cyanide by surface-enhanced Raman spectroscopy. , 2004, , .		12
29	Chemical agent detection by surface-enhanced Raman spectroscopy. , 2004, 5269, 16.		12
30	Ten-minute analysis of drugs and metabolites in saliva by surface-enhanced Raman spectroscopy. , 2005, , .		12
31	<title>Trace drug analysis by surface-enhanced Raman spectroscopy</title>. , 2000, 4200, 89.		11
32	Raman Spectroscopy Using 1550 nm (Retina-Safe) Laser Excitation. <i>Applied Spectroscopy</i> , 2011, 65, 561-563.	2.2	11
33	Detection of Bacillus anthracis Spores Using Peptide Functionalized SERS-Active Substrates. <i>International Journal of Spectroscopy</i> , 2012, 2012, 1-6.	1.6	9
34	Five-minute analysis of chemotherapy drugs and metabolites in saliva: evaluating dosage. , 2004, 5261, 135.		7
35	DETECTION OF INVISIBLE <i>BACILLI</i> SPORES ON SURFACES USING A PORTABLE SERS-BASED ANALYZER. <i>International Journal of High Speed Electronics and Systems</i> , 2008, 18, 407-416.	0.7	7
36	Drug Content Uniformity: Quantifying Loratadine in Tablets Using a Created Raman Excipient Spectrum. <i>Pharmaceutics</i> , 2021, 13, 309.	4.5	7

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37	<title>Detection of bioagent signatures: a comparison of electrolytic and metal-doped sol-gel surface-enhanced Raman media</title>. , 2002, 4575, 62.		6
38	<title>Analysis of chemotherapy drug 5-fluorouracil and its metabolites by surface-enhanced Raman spectroscopy</title>. , 2004, , .		6
39	<title>Surface-enhanced Raman sensor for trace chemical detection in water</title>. , 1999, 3857, 76.		5
40	Detection of illicit drugs in impaired driver saliva by a field-usable SERS analyzer. Proceedings of SPIE, 2014, , .	0.8	5
41	<title>Sol-gel chemical sensors for surface-enhanced Raman spectroscopy</title>. , 1999, , .		4
42	Rapid biological agent identification by surface-enhanced Raman spectroscopy. , 1999, , .		3
43	Detection of Bacillus spores within 15 minutes by surface-enhanced Raman spectroscopy. Proceedings of SPIE, 2012, , .	0.8	3
44	Five minute analysis of chemotherapy drugs in saliva. , 2006, , .		2
45	Pharmaceutical process applications of Raman spectroscopy. , 2004, , .		1
46	A portable fuel analyzer. , 2006, 6377, 81.		1
47	Identifying bacterial spores and anthrax hoax materials by Raman spectroscopy. , 2004, 5585, 65.		0
48	Measurement of 100 B. anthracis Ames spores within 15 minutes by SERS at the US Army Edgewood Chemical Biological Ctr.. , 2014, , .		0