Alastair W Wark

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1790461/publications.pdf

Version: 2024-02-01

59 papers	3,325 citations	186265 28 h-index	149698 56 g-index
60 all docs	60 docs citations	60 times ranked	4602 citing authors

#	Article	IF	Citations
1	Stimulated Raman scattering microscopy with spectral phasor analysis: applications in assessing drugâ€“cell interactions. Chemical Science, 2022, 13, 3468-3476.	7.4	19
2	A universal polymer shell-isolated nanoparticle (SHIN) design for single particle spectro-electrochemical SERS sensing using different core shapes. Nanoscale Advances, 2021, 3, 6415-6426.	4.6	2
3	De Novo Design of Functional Coassembling Organicâ€“Inorganic Hydrogels for Hierarchical Mineralization and Neovascularization. ACS Nano, 2021, 15, 11202-11217.	14.6	38
4	Detection and quantification of warfarin in pharmaceutical dosage form and in spiked human plasma using surface enhanced Raman scattering. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 228, 117533.	3.9	5
5	Covalent co-assembly between resilin-like polypeptide and peptide amphiphile into hydrogels with controlled nanostructure and improved mechanical properties. Biomaterials Science, 2020, 8, 846-857.	5.4	35
6	Phenotypic analysis of extracellular vesicles: a review on the applications of fluorescence. Journal of Extracellular Vesicles, 2020, 9, 1710020.	12.2	79
7	Stability-indicating micellar enhanced spectro-fluorometric determination of Daclatasvir in its tablet and spiked human plasma. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 211, 52-58.	3.9	1
8	Pure component contribution (PCCA) and synergy interval partial least squares (siPLS) algorithms for efficient resolution and quantification of overlapped signals; an application to novel antiviral tablets of daclatasvir, sofosbuvir and ribavirin. European Journal of Chemistry, 2019, 10, 350-357.	0.6	4
9	Optimized polydopamine coating and DNA conjugation onto gold nanorods for single nanoparticle bioaffinity measurements. Analyst, The, 2018, 143, 1635-1643.	3.5	13
10	Second Harmonic Scattering from Silver Nanocubes. Journal of Physical Chemistry C, 2018, 122, 17447-17455.	3.1	12
11	Lightâ€Triggered Inactivation of Enzymes with Photothermal Nanoheaters. Small, 2017, 13, 1603195.	10.0	20
12	Gold Suprashells: Enhanced Photothermal Nanoheaters with Multiple Localized Surface Plasmon Resonances for Broadband Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2017, 121, 7404-7411.	3.1	11
13	Tandem Femto- and Nanomolar Analysis of Two Protein Biomarkers in Plasma on a Single Mixed Antibody Monolayer Surface Using Surface Plasmon Resonance. Analytical Chemistry, 2017, 89, 12562-12568.	6.5	14
14	Ultrasensitive and towards single molecule SERS: general discussion. Faraday Discussions, 2017, 205, 291-330.	3.2	11
15	Femtomolar Detection of Tau Proteins in Undiluted Plasma Using Surface Plasmon Resonance. Analytical Chemistry, 2016, 88, 7793-7799.	6.5	65
16	Real-time assessment of nanoparticle-mediated antigen delivery and cell response. Lab on A Chip, 2016, 16, 3374-3381.	6.0	17
17	Gel electrophoretic analysis of differently shaped interacting and non-interacting bioconjugated nanoparticles. RSC Advances, 2016, 6, 109613-109619.	3.6	3
18	Self-assembly of gold supraparticles with crystallographically aligned and strongly coupled nanoparticle building blocks for SERS and photothermal therapy. Chemical Science, 2016, 7, 6232-6237.	7.4	16

#	Article	IF	Citations
19	Hyper Rayleigh scattering from gold nanorods : The shape effect for centrosymmetric nanoparticles. , 2014, , .		0
20	Synthesis of size tunable monodispersed silver nanoparticles and the effect of size on SERS enhancement. Vibrational Spectroscopy, 2014, 71, 41-46.	2.2	41
21	Dual Nanoparticle Amplified Surface Plasmon Resonance Detection of Thrombin at Subattomolar Concentrations. Analytical Chemistry, 2014, 86, 9824-9829.	6.5	44
22	Nanopropulsion by Biocatalytic Self-Assembly. ACS Nano, 2014, 8, 9580-9589.	14.6	17
23	Ultrasensitive and Ultrawide Range Detection of a Cardiac Biomarker on a Surface Plasmon Resonance Platform. Analytical Chemistry, 2014, 86, 814-819.	6.5	78
24	Universal Surface-Enhanced Raman Tags: Individual Nanorods for Measurements from the Visible to the Infrared (514â€“1064 nm). ACS Nano, 2014, 8, 8600-8609.	14.6	44
25	Stabilized gold nanorodâ€“dye conjugates with controlled resonance coupling create bright surface-enhanced resonance Raman nanotags. Physical Chemistry Chemical Physics, 2013, 15, 18835.	2.8	19
26	Synthesis and NIR optical properties of hollow gold nanospheres with LSPR greater than one micrometer. Nanoscale, 2013, 5, 765-771.	5.6	44
27	Highly sensitive electrochemical detection of proteins using aptamer-coated gold nanoparticles and surface enzyme reactions. Analyst, The, 2012, 137, 2011.	3.5	39
28	Nanoparticle-Enhanced Surface Plasmon Resonance Detection of Proteins at Attomolar Concentrations: Comparing Different Nanoparticle Shapes and Sizes. Analytical Chemistry, 2012, 84, 1702-1707.	6.5	148
29	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
30	Controlled side-by-side assembly of gold nanorods and dye molecules into polymer-wrapped SERRS-active clusters. Chemical Communications, 2011, 47, 3757.	4.1	54
31	Mapping Localized Surface Plasmons within Silver Nanocubes Using Cathodoluminescence Hyperspectral Imaging. Journal of Physical Chemistry C, 2011, 115, 14031-14035.	3.1	27
32	Bioaffinity detection of pathogens on surfaces. Journal of Industrial and Engineering Chemistry, 2010, 16, 169-177.	5.8	25
33	Dynamic Imaging Analysis of SERS-Active Nanoparticle Clusters in Suspension. Journal of Physical Chemistry C, 2010, 114, 18115-18120.	3.1	31
34	Attomolar detection of protein biomarkers using biofunctionalized gold nanorods with surface plasmon resonance. Analyst, The, 2010, 135, 2528.	3.5	78
35	Multiplexed Detection Methods for Profiling MicroRNA Expression in Biological Samples. Angewandte Chemie - International Edition, 2008, 47, 644-652.	13.8	253
36	Microarray methods for protein biomarker detection. Analyst, The, 2008, 133, 975.	3.5	134

#	Article	IF	Citations
37	Enhanced bioaffinity sensing using surface plasmons, surface enzyme reactions, nanoparticles and diffraction gratings. Analyst, The, 2008, 133, 596.	3.5	25
38	Utilizing ultrathin DNA/poly-lysine multilayer films to create liquid/liquid interfaces: spectroscopic characterization, interfacial reactions and nanoparticle adsorption. Journal of Physics Condensed Matter, 2007, 19, 375107.	1.8	3
39	Nanoparticle-Enhanced Diffraction Gratings for Ultrasensitive Surface Plasmon Biosensing. Analytical Chemistry, 2007, 79, 6697-6701.	6.5	88
40	Diagnostics of Spectrally Resolved Transient Absorption:â€‰ Surface Plasmon Resonance of Metal Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 18525-18532.	3.1	10
41	Interfacial Velocity-Dependent Plasmon Damping in Colloidal Metallic Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 10836-10840.	3.1	6
42	Attomole Microarray Detection of MicroRNAs by Nanoparticle-Amplified SPR Imaging Measurements of Surface Polyadenylation Reactions. Journal of the American Chemical Society, 2006, 128, 14044-14046.	13.7	429
43	Single-Nucleotide Polymorphism Genotyping by Nanoparticle-Enhanced Surface Plasmon Resonance Imaging Measurements of Surface Ligation Reactions. Analytical Chemistry, 2006, 78, 3158-3164.	6.5	151
44	Creating Advanced Multifunctional Biosensors with Surface Enzymatic Transformations. Langmuir, 2006, 22, 5241-5250.	3.5	103
45	Surface Plasmon Resonance Imaging Measurements of Protein Interactions With Biopolymer Microarrays. , 2006, 328, 113-130.		8
46	Enzymatically Amplified Surface Plasmon Resonance Imaging Detection of DNA by Exonuclease III Digestion of DNA Microarrays. Analytical Chemistry, 2005, 77, 5096-5100.	6.5	160
47	Fabricating RNA Microarrays with RNAâ”DNA Surface Ligation Chemistry. Analytical Chemistry, 2005, 77, 7832-7837.	6.5	46
48	Determination of Ribonuclease H Surface Enzyme Kinetics by Surface Plasmon Resonance Imaging and Surface Plasmon Fluorescence Spectroscopy. Analytical Chemistry, 2005, 77, 6528-6534.	6.5	40
49	Long-Range Surface Plasmon Resonance Imaging for Bioaffinity Sensors. Analytical Chemistry, 2005, 77, 3904-3907.	6.5	241
50	Surface Enzyme Kinetics for Biopolymer Microarrays:Â a Combination of Langmuir and Michaelisâ”Menten Concepts. Langmuir, 2005, 21, 4050-4057.	3.5	61
51	Real-Time Surface Plasmon Resonance Imaging Measurements for the Multiplexed Determination of Protein Adsorption/Desorption Kinetics and Surface Enzymatic Reactions on Peptide Microarrays. Analytical Chemistry, 2004, 76, 5677-5684.	6.5	181
52	Preparation of silver nanoparticles in solution from a silver salt by laser irradiation. Chemical Communications, 2002, , 792-793.	4.1	265
53	Second harmonic generation by reflection from vicinal surfaces of epitaxial layers of cadmium mercury telluride. Journal Physics D: Applied Physics, 2001, 34, 1712-1716.	2.8	1
54	Measurement of the d36 coefficient of mercury cadmium telluride by reflection second harmonic generation. Journal of Applied Physics, 2001, 89, 306-310.	2.5	3

#	Article	IF	Citations
55	In-situ evaluation of the anodic oxide growth on Hg1â^'xCdxTe (MCT) using ellipsometry and second harmonic generation. Journal of Electronic Materials, 2000, 29, 648-653.	2.2	2
56	Interference between second harmonic waves in an anodically grown cadmium sulphide thin film. Electrochimica Acta, 1999, 45, 623-628.	5.2	1
57	Surface second harmonic generation in the characterization of anodic sulphide and oxide films on Hg1â^'xCdxTe (MCT). Journal of Electronic Materials, 1999, 28, 830-837.	2.2	4
58	Second-harmonic generation in the characterization of surface effects in epitaxial layers. Semiconductor Science and Technology, 1998, 13, 1117-1122.	2.0	3
59	Ultrasensitive Microarray Detection of DNA using Enzymatically Amplified SPR Imaging. , 0, , 169-194.		1