

Ã-mer Aydin

List of Publications by Year in descending order

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24
papers

593
citations

623734

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docs citations

24
times ranked

863
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of methicillin-resistant <i>Staphylococcus aureus</i> bacteria using surface-enhanced Raman spectroscopy and machine learning techniques. <i>Analyst</i> , The, 2020, 145, 7559-7570.	3.5	67
2	Interaction of gold nanoparticles with mitochondria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 71, 315-318.	5.0	65
3	Differentiation of Healthy Brain Tissue and Tumors Using Surface-Enhanced Raman Scattering. <i>Applied Spectroscopy</i> , 2009, 63, 1095-1100.	2.2	56
4	Drug-resistant <i>Staphylococcus aureus</i> bacteria detection by combining surface-enhanced Raman spectroscopy (SERS) and deep learning techniques. <i>Scientific Reports</i> , 2021, 11, 18444.	3.3	52
5	Effects of Ultrasound Frequency on Nanodroplet-Mediated Histotripsy. <i>Ultrasound in Medicine and Biology</i> , 2015, 41, 2135-2147.	1.5	38
6	Surface-Enhanced Raman Scattering of Rat Tissues. <i>Applied Spectroscopy</i> , 2009, 63, 662-668.	2.2	33
7	Formulation of Acid-Sensitive Micelles for Delivery of Cabazitaxel into Prostate Cancer Cells. <i>Molecular Pharmaceutics</i> , 2016, 13, 1413-1429.	4.6	28
8	Oligonucleotide-Mediated Au@Ag Core-Shell Nanoparticles. <i>Plasmonics</i> , 2009, 4, 293-301.	3.4	27
9	The role of positive and negative pressure on cavitation nucleation in nanodroplet-mediated histotripsy. <i>Physics in Medicine and Biology</i> , 2016, 61, 663-682.	3.0	27
10	Design and synthesis of novel (S)-Naproxen hydrazide-hydrazones as potent VEGFR-2 inhibitors and their evaluation in vitro/in vivo breast cancer models. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 37, 116097.	3.0	27
11	Size Effect of 3D Aggregates Assembled from Silver Nanoparticles on Surface-Enhanced Raman Scattering. <i>ChemPhysChem</i> , 2009, 10, 537-542.	2.1	26
12	Noninvasive Ablation of Prostate Cancer Spheroids Using Acoustically-Activated Nanodroplets. <i>Molecular Pharmaceutics</i> , 2016, 13, 4054-4065.	4.6	25
13	Effects of Droplet Composition on Nanodroplet-Mediated Histotripsy. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 931-946.	1.5	22
14	Usage of natural chitosan membrane obtained from insect corneal lenses as a drug carrier and its potential for point of care tests. <i>Materials Science and Engineering C</i> , 2020, 112, 110897.	7.3	16
15	SERS-based sensor with a machine learning based effective feature extraction technique for fast detection of colistin-resistant <i>Klebsiella pneumoniae</i> . <i>Analytica Chimica Acta</i> , 2022, 1221, 340094.	5.4	16
16	The Proteomic Effects of Pulsed Focused Ultrasound on Tumor Microenvironments of Murine Melanoma and Breast Cancer Models. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 3232-3245.	1.5	14
17	Discrimination of waterborne pathogens, <i>Cryptosporidium parvum</i> oocysts and bacteria using surface-enhanced Raman spectroscopy coupled with principal component analysis and hierarchical clustering. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 267, 120475.	3.9	13
18	Triple-combination therapy assisted with ultrasound-active gold nanoparticles and ultrasound therapy against 3D cisplatin-resistant ovarian cancer model. <i>Ultrasonics Sonochemistry</i> , 2022, 82, 105903.	8.2	13

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19	Pulsed-Focused Ultrasound Slows B16 Melanoma and 4T1 Breast Tumor Growth through Differential Tumor Microenvironmental Changes. <i>Cancers</i> , 2021, 13, 1546.	3.7	7
20	Investigation of mammalian cells expressing SARS-CoV-2 proteins by surface-enhanced Raman scattering and multivariate analysis. <i>Analyst, The</i> , 2022, 147, 1213-1221.	3.5	7
21	Determination of Optimum Ratio of Cationic Polymers and Small Interfering RNA with Agarose Gel Retardation Assay. <i>Methods in Molecular Biology</i> , 2022, 2434, 117-128.	0.9	6
22	Design, synthesis, and <i>in vitro</i> and <i>in vivo</i> anticancer activity studies of new (<i>S</i>)-Naproxen thiosemicarbazide/1,2,4-triazole derivatives. <i>New Journal of Chemistry</i> , 2022, 46, 6046-6059.	2.8	6
23	Overcome of Cisplatin Drug Resistance in Ovarian Cancer by Combination of Low-Intensity Ultrasound and Cisplatin. <i>Current Drug Delivery</i> , 2022, 19, .	1.6	2
24	Toward PCR-free mutation detection based on surface-enhanced Raman scattering. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0