ZdenÄ›k PilÃ¡t

List of Publications by Year
in descending order

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23 papers	526 citations	933447 10 h-index	940533 16 g-index
25 all docs	25 docs citations	25 times ranked	773 citing authors

#	Article	IF	Citations
1	Raman Microspectroscopy of Individual Algal Cells: Sensing Unsaturation of Storage Lipids in vivo. Sensors, 2010, 10, 8635-8651.	3.8	151
2	Following the Mechanisms of Bacteriostatic versus Bactericidal Action Using Raman Spectroscopy. Molecules, 2013, 18, 13188-13199.	3.8	78
3	Algal Biomass Analysis by Laser-Based Analytical Techniquesâ€"A Review. Sensors, 2014, 14, 17725-17752.	3.8	53
4	Raman microspectroscopy of algal lipid bodies: Î²-carotene quantification. Journal of Applied Phycology, 2012, 24, 541-546.	2.8	44
5	Wavelength-Dependent Optical Force Aggregation of Gold Nanorods for SERS in a Microfluidic Chip. Journal of Physical Chemistry C, 2019, 123, 5608-5615.	3.1	38
6	Microfluidic Cultivation and Laser Tweezers Raman Spectroscopy of E. coli under Antibiotic Stress. Sensors, 2018, 18, 1623.	3.8	34
7	Effects of Infrared Optical Trapping on Saccharomyces cerevisiae in a Microfluidic System. Sensors, 2017, 17, 2640.	3.8	30
8	Spectral tuning of lasing emission from optofluidic droplet microlasers using optical stretching. Optics Express, 2013, 21, 21380.	3.4	27
9	Monitoring Candida parapsilosis and Staphylococcus epidermidis Biofilms by a Combination of Scanning Electron Microscopy and Raman Spectroscopy. Sensors, 2018, 18, 4089.	3.8	23
10	Thermal tuning of spectral emission from optically trapped liquid-crystal droplet resonators. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1855.	2.1	13
11	Raman microspectroscopy of algal lipid bodies: Î²-carotene as a volume sensor. Proceedings of SPIE, 2011, , .	0.8	7
12	Detection of Chloroalkanes by Surface-Enhanced Raman Spectroscopy in Microfluidic Chips. Sensors, 2018, 18, 3212.	3.8	6
13	Analysis of Bacteriophageâ€"Host Interaction by Raman Tweezers. Analytical Chemistry, 2020, 92, 12304-12311.	6.5	6
14	Optically Transportable Optofluidic Microlasers with Liquid Crystal Cavities Tuned by the Electric Field. ACS Applied Materials & Interfaces, 2021, 13, 50657-50667.	8.0	4
15	Raman tweezers in microfluidic systems for analysis and sorting of living cells. , 2014, , .		3
16	Raman Microspectroscopic Analysis of Selenium Bioaccumulation by Green Alga Chlorella vulgaris. Biosensors, 2021, 11, 115.	4.7	3
17	Raman spectroscopy for the characterization of algal cells. Proceedings of SPIE, 2010, , .	0.8	2
18	Laser tweezers Raman spectroscopy of E. coli under antibiotic stress in microfluidic chips. , 2018, , .		1

#	Article	IF	Citations
19	Raman tweezers in microfluidic systems for analysis and sorting of living cells. , 2014, , .		0
20	Directed evolution of enzymes using microfluidic chips. , 2016, , .		0
21	Raman-Tweezers Optofluidic System for Automatic Analysis and Sorting of Living Cells. , 2015, , .		0
22	Surface-enhanced Raman spectroscopy of chloroalkanes in microfluidic chips. , 2018, , .		0
23	Analysis of microorganisms, chlorinated hydrocarbons and hyaluronic acid gel using Raman based optofluidic techniques and SERS. , 2019, , .		0