# ZdenÄ›k PilÃ¡t

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2040580/publications.pdf

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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 Microspectroscopic Analysis of Selenium Bioaccumulation by Green Alga Chlorella vulgaris. Biosensors, 2021, 11, 115. | 4.7 | 3 |
| 2 | Optically Transportable Optofluidic Microlasers with Liquid Crystal Cavities Tuned by the Electric Field. ACS Applied Materials & Interfaces, 2021, 13, 50657-50667. | 8.0 | 4 |
| 3 | Analysis of Bacteriophageâ€“Host Interaction by Raman Tweezers. Analytical Chemistry, 2020, 92, 12304-12311. | 6.5 | 6 |
| 4 | 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 |
| 5 | Analysis of microorganisms, chlorinated hydrocarbons and hyaluronic acid gel using Raman based optofluidic techniques and SERS. , 2019, , . | | 0 |
| 6 | Monitoring Candida parapsilosis and Staphylococcus epidermidis Biofilms by a Combination of Scanning Electron Microscopy and Raman Spectroscopy. Sensors, 2018, 18, 4089. | 3.8 | 23 |
| 7 | Detection of Chloroalkanes by Surface-Enhanced Raman Spectroscopy in Microfluidic Chips. Sensors, 2018, 18, 3212. | 3.8 | 6 |
| 8 | Microfluidic Cultivation and Laser Tweezers Raman Spectroscopy of E. coli under Antibiotic Stress. Sensors, 2018, 18, 1623. | 3.8 | 34 |
| 9 | Laser tweezers Raman spectroscopy of E. coli under antibiotic stress in microfluidic chips. , 2018, , . | | 1 |
| 10 | Surface-enhanced Raman spectroscopy of chloroalkanes in microfluidic chips. , 2018, , . | | 0 |
| 11 | Effects of Infrared Optical Trapping on Saccharomyces cerevisiae in a Microfluidic System. Sensors, 2017, 17, 2640. | 3.8 | 30 |
| 12 | 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 |
| 13 | Directed evolution of enzymes using microfluidic chips. , 2016, , . | | 0 |
| 14 | Raman-Tweezers Optofluidic System for Automatic Analysis and Sorting of Living Cells. , 2015, , . | | 0 |
| 15 | Algal Biomass Analysis by Laser-Based Analytical Techniquesâ€”A Review. Sensors, 2014, 14, 17725-17752. | 3.8 | 53 |
| 16 | Raman tweezers in microfluidic systems for analysis and sorting of living cells. , 2014, , . | | 3 |
| 17 | Raman tweezers in microfluidic systems for analysis and sorting of living cells. , 2014, , . | | 0 |
| 18 | Spectral tuning of lasing emission from optofluidic droplet microlasers using optical stretching. Optics Express, 2013, 21, 21380. | 3.4 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Following the Mechanisms of Bacteriostatic versus Bactericidal Action Using Raman Spectroscopy. Molecules, 2013, 18, 13188-13199. | 3.8 | 78 |
| 20 | Raman microspectroscopy of algal lipid bodies: Î²-carotene quantification. Journal of Applied Phycology, 2012, 24, 541-546. | 2.8 | 44 |
| 21 | Raman microspectroscopy of algal lipid bodies: Î²-carotene as a volume sensor. Proceedings of SPIE, 2011, , . | 0.8 | 7 |
| 22 | Raman spectroscopy for the characterization of algal cells. Proceedings of SPIE, 2010, , . | 0.8 | 2 |
| 23 | Raman Microspectroscopy of Individual Algal Cells: Sensing Unsaturation of Storage Lipids in vivo. Sensors, 2010, 10, 8635-8651. | 3.8 | 151 |