

Jan Jezek

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

1,371
citations

304743

22
h-index

345221

36
g-index

88
all docs

88
docs citations

88
times ranked

2092
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Raman spectroscopyâ€”a tool for rapid differentiation among microbes causing urinary tract infections. <i>Analytica Chimica Acta</i> , 2022, 1191, 339292. | 5.4 | 17 |
| 2 | The Impact of Mitochondrial Fission-Stimulated ROS Production on Pro-Apoptotic Chemotherapy. <i>Biology</i> , 2021, 10, 33. | 2.8 | 22 |
| 3 | Stochastic dynamics of optically bound matter levitated in vacuum. <i>Optica</i> , 2021, 8, 220. | 9.3 | 24 |
| 4 | Raman Microspectroscopic Analysis of Selenium Bioaccumulation by Green Alga <i>Chlorella vulgaris</i> . <i>Biosensors</i> , 2021, 11, 115. | 4.7 | 3 |
| 5 | Optically bound matter levitated in vacuum. , 2021, , . | | 0 |
| 6 | Optically Transportable Optofluidic Microlasers with Liquid Crystal Cavities Tuned by the Electric Field. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50657-50667. | 8.0 | 4 |
| 7 | Controlled Oil/Water Partitioning of Hydrophobic Substrates Extending the Bioanalytical Applications of Droplet-Based Microfluidics. <i>Analytical Chemistry</i> , 2019, 91, 10008-10015. | 6.5 | 20 |
| 8 | Identification of ability to form biofilm in <i>Candida parapsilosis</i> and <i>Staphylococcus epidermidis</i> by Raman spectroscopy. <i>Future Microbiology</i> , 2019, 14, 509-517. | 2.0 | 16 |
| 9 | Wavelength-Dependent Optical Force Aggregation of Gold Nanorods for SERS in a Microfluidic Chip. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5608-5615. | 3.1 | 38 |
| 10 | Surface-enhanced Raman Spectroscopy in Microfluidic Chips for Directed Evolution of Enzymes and Environmental Monitoring. , 2019, , . | | 0 |
| 11 | Tunable Soft-Matter Optofluidic Waveguides Assembled by Light. <i>ACS Photonics</i> , 2019, 6, 403-410. | 6.6 | 16 |
| 12 | Cyclin C: The Story of a Non-Cycling Cyclin. <i>Biology</i> , 2019, 8, 3. | 2.8 | 28 |
| 13 | Multimode fiber transmission matrix obtained with internal references. , 2019, , . | | 1 |
| 14 | Analysis of microorganisms, chlorinated hydrocarbons and hyaluronic acid gel using Raman based optofluidic techniques and SERS. , 2019, , . | | 0 |
| 15 | Enhancement of the â€”tractor-beamâ€” pulling force on an optically bound structure. <i>Light: Science and Applications</i> , 2018, 7, 17135-17135. | 16.6 | 29 |
| 16 | Detection of Chloroalkanes by Surface-Enhanced Raman Spectroscopy in Microfluidic Chips. <i>Sensors</i> , 2018, 18, 3212. | 3.8 | 6 |
| 17 | Aglycemic HepG2 Cells Switch From Aminotransferase Glutaminolytic Pathway of Pyruvate Utilization to Complete Krebs Cycle at Hypoxia. <i>Frontiers in Endocrinology</i> , 2018, 9, 637. | 3.5 | 11 |
| 18 | Reactive Oxygen Species and Mitochondrial Dynamics: The Yin and Yang of Mitochondrial Dysfunction and Cancer Progression. <i>Antioxidants</i> , 2018, 7, 13. | 5.1 | 325 |

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|----|---|-----|-----------|
| 19 | Microfluidic Cultivation and Laser Tweezers Raman Spectroscopy of <i>E. coli</i> under Antibiotic Stress. <i>Sensors</i> , 2018, 18, 1623. | 3.8 | 34 |
| 20 | Laser tweezers Raman spectroscopy of <i>E. coli</i> under antibiotic stress in microfluidic chips. , 2018, , . | | 1 |
| 21 | Motion of optically bound particles in tractor beam. , 2018, , . | | 0 |
| 22 | Measurement system for characterization of angular and spectral distribution of LED-based sources. , 2018, , . | | 0 |
| 23 | Surface-enhanced Raman spectroscopy of chloroalkanes in microfluidic chips. , 2018, , . | | 0 |
| 24 | Rapid identification of staphylococci by Raman spectroscopy. <i>Scientific Reports</i> , 2017, 7, 14846. | 3.3 | 57 |
| 25 | Differentiation between <i>Staphylococcus aureus</i> and <i>Staphylococcus epidermidis</i> strains using Raman spectroscopy. <i>Future Microbiology</i> , 2017, 12, 881-890. | 2.0 | 19 |
| 26 | Effects of Infrared Optical Trapping on <i>Saccharomyces cerevisiae</i> in a Microfluidic System. <i>Sensors</i> , 2017, 17, 2640. | 3.8 | 30 |
| 27 | Thermal tuning of spectral emission from optically trapped liquid-crystal droplet resonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1855. | 2.1 | 13 |
| 28 | Optically Trapped Droplets of Liquid Crystals as Flexible, Tunable Optofluidic Microcavities. , 2017, , . | | 0 |
| 29 | Quantitative Raman Spectroscopy Analysis of Polyhydroxyalkanoates Produced by <i>Cupriavidus necator</i> H16. <i>Sensors</i> , 2016, 16, 1808. | 3.8 | 24 |
| 30 | Temperature-induced tuning of emission spectra of liquid-crystal optical microcavities. <i>Proceedings of SPIE</i> , 2016, , . | 0.8 | 0 |
| 31 | Raman spectroscopy to monitor the effects of temperature regime and medium composition on micro-organism growth. <i>Proceedings of SPIE</i> , 2016, , . | 0.8 | 0 |
| 32 | Two-photon photopolymerization with multiple laser beams. <i>Proceedings of SPIE</i> , 2016, , . | 0.8 | 0 |
| 33 | Directed evolution of enzymes using microfluidic chips. , 2016, , . | | 0 |
| 34 | Direct measurement of the temperature profile close to an optically trapped absorbing particle. <i>Optics Letters</i> , 2016, 41, 870. | 3.3 | 13 |
| 35 | Influence of Culture Media on Microbial Fingerprints Using Raman Spectroscopy. <i>Sensors</i> , 2015, 15, 29635-29647. | 3.8 | 32 |
| 36 | Identification of individual biofilm-forming bacterial cells using Raman tweezers. <i>Journal of Biomedical Optics</i> , 2015, 20, 051038. | 2.6 | 16 |

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|----|---|-----|-----------|
| 37 | H ₂ O ₂ -Activated Mitochondrial Phospholipase iPLA ₂ ^β Prevents Lipotoxic Oxidative Stress in Synergy with UCP2, Amplifies Signaling via G-Protein-Coupled Receptor GPR40, and Regulates Insulin Secretion in Pancreatic β-Cells. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 958-972. | 5.4 | 45 |
| 38 | Time-resolved study of microorganisms by Raman spectroscopy. <i>Proceedings of SPIE</i> , 2015, , . | 0.8 | 0 |
| 39 | Aglycemia keeps mitochondrial oxidative phosphorylation under hypoxic conditions in HepG2 cells. <i>Journal of Bioenergetics and Biomembranes</i> , 2015, 47, 467-476. | 2.3 | 18 |
| 40 | Raman-Tweezers Optofluidic System for Automatic Analysis and Sorting of Living Cells. , 2015, , . | | 0 |
| 41 | Time-resolved study of microorganisms by Raman spectroscopy. , 2015, , . | | 0 |
| 42 | Candida parapsilosis Biofilm Identification by Raman Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2014, 15, 23924-23935. | 4.1 | 43 |
| 43 | Tunable WGM resonators from optically trapped dye doped liquid crystal emulsion droplets. , 2014, , . | | 2 |
| 44 | Monitoring the influence of antibiotic exposure using Raman spectroscopy. <i>Proceedings of SPIE</i> , 2014, , . | 0.8 | 0 |
| 45 | Anomalous behavior of a three-dimensional, optically trapped, super-paramagnetic particle. , 2014, , . | | 0 |
| 46 | Raman tweezers on bacteria: following the mechanisms of bacteriostatic versus bactericidal action. , 2014, , . | | 1 |
| 47 | Reproducible and time-course study of yeast biofilm by Raman spectroscopy. <i>Proceedings of SPIE</i> , 2014, , . | 0.8 | 0 |
| 48 | Raman tweezers in microfluidic systems for analysis and sorting of living cells. , 2014, , . | | 3 |
| 49 | Droplet resonator based optofluidic microlasers. , 2014, , . | | 2 |
| 50 | Raman tweezers in microfluidic systems for analysis and sorting of living cells. , 2014, , . | | 0 |
| 51 | Liquid crystal emulsion micro-droplet WGM resonators. <i>Proceedings of SPIE</i> , 2014, , . | 0.8 | 0 |
| 52 | Optical trapping of microalgae at 735-1064 nm: Photodamage assessment. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 121, 27-31. | 3.8 | 40 |
| 53 | Spectral tuning of lasing emission from optofluidic droplet microlasers using optical stretching. <i>Optics Express</i> , 2013, 21, 21380. | 3.4 | 27 |
| 54 | Tunable optofluidic microlasers based on optically stretched emulsion droplets. , 2013, , . | | 0 |

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|----|--|-----|-----------|
| 55 | Optical manipulation of aerosol droplets using a holographic dual and single beam trap. Optics Letters, 2013, 38, 4601. | 3.3 | 22 |
| 56 | Following the Mechanisms of Bacteriostatic versus Bactericidal Action Using Raman Spectroscopy. Molecules, 2013, 18, 13188-13199. | 3.8 | 78 |
| 57 | Raman spectroscopy for bacterial identification and characterization. Proceedings of SPIE, 2012, , . | 0.8 | 1 |
| 58 | Microfluidic systems for optical sorting. , 2012, , . | | 2 |
| 59 | Application of laser-induced breakdown spectroscopy to the analysis of algal biomass for industrial biotechnology. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 74-75, 169-176. | 2.9 | 26 |
| 60 | Raman microspectroscopy of algal lipid bodies: Î ² -carotene quantification. Journal of Applied Phycology, 2012, 24, 541-546. | 2.8 | 44 |
| 61 | Characterization of microorganisms using Raman tweezers. Proceedings of SPIE, 2011, , . | 0.8 | 3 |
| 62 | Raman microspectroscopy of algal lipid bodies: Î ² -carotene as a volume sensor. Proceedings of SPIE, 2011, , . | 0.8 | 7 |
| 63 | Raman microspectroscopy based sensor of algal lipid unsaturation. Proceedings of SPIE, 2011, , . | 0.8 | 0 |
| 64 | Narrow-selection bandwidth of femtosecond laser comb with application to changes in optical path distance. , 2010, , . | | 0 |
| 65 | Precise monitoring of ultra low expansion Fabry-Perot cavity length by the use of a stabilized optical frequency comb. , 2010, , . | | 3 |
| 66 | Monitor of mirror distance of Fabry-Perot cavity by the use of stabilized femtosecond laser comb. Proceedings of SPIE, 2010, , . | 0.8 | 3 |
| 67 | Active sorting switch for biological objects. , 2010, , . | | 2 |
| 68 | Precise measurement of the length by means of DFB diode and femtosecond laser. Proceedings of SPIE, 2009, , . | 0.8 | 0 |
| 69 | Raman microspectroscopy of optically trapped micro- and nanoobjects. Proceedings of SPIE, 2008, , . | 0.8 | 3 |
| 70 | Axial optical trap stiffness influenced by retro-reflected beam. Journal of Optics, 2007, 9, S251-S255. | 1.5 | 10 |
| 71 | <title>Manufacturing of extremely narrow polymer fibers by non-diffracting beams</title>. , 2007, , . | | 2 |
| 72 | Formation of long and thin polymer fiber using nondiffracting beam. Optics Express, 2006, 14, 8506. | 3.4 | 44 |

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|----|---|-----|-----------|
| 73 | <title>Optical tracking of micro-objects within living cells</title>. , 2006, 6180, 466. | | 0 |
| 74 | Narrow polymer fibers obtained as a combination of photopolymerization and non-diffracting beams. , 2006, , . | | 0 |
| 75 | Combination of photopolymerization and optical micromanipulation techniques. , 2005, , . | | 0 |
| 76 | How the size of a particle approaching dielectric interface influences its behavior. , 2004, , . | | 1 |
| 77 | Theoretical comparison of optical traps created by standing wave and single beam. Optics Communications, 2003, 220, 401-412. | 2.1 | 84 |
| 78 | Spatial structure of chromatin in hybrid cells produced by laser-induced fusion studied by optical microscopy. , 2003, 5036, 630. | | 0 |
| 79 | Sequence anatomy of mitochondrial anion carriers. FEBS Letters, 2003, 534, 15-25. | 2.8 | 27 |
| 80 | Behaviour of an optically trapped probe approaching a dielectric interface. Journal of Modern Optics, 2003, 50, 1615-1625. | 1.3 | 23 |
| 81 | Employment of laser-induced fusion of living cells for the study of spatial structure of chromatin. , 2003, , . | | 0 |
| 82 | The use of an optically trapped microprobe for scanning details of surface. , 2003, 5259, 166. | | 1 |
| 83 | Influence of weak reflections from dielectric interfaces on properties of optical trap. , 2003, , . | | 1 |
| 84 | Behaviour of an optically trapped probe approaching a dielectric interface. Journal of Modern Optics, 2003, 50, 1615-1625. | 1.3 | 2 |
| 85 | <title>Use of a microprobe held by a laser beam for the study of surface reliefs</title>. , 2002, , . | | 0 |
| 86 | <title>Behavior of nanoparticle and microparticle in the standing wave trap</title>. , 2001, , . | | 2 |
| 87 | Combined system for optical cutting and multiple-beam optical trapping. , 1999, 4016, 303. | | 0 |