

Jan Jezek

List of Publications by Year in descending order

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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	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
2	Theoretical comparison of optical traps created by standing wave and single beam. <i>Optics Communications</i> , 2003, 220, 401-412.	2.1	84
3	Following the Mechanisms of Bacteriostatic versus Bactericidal Action Using Raman Spectroscopy. <i>Molecules</i> , 2013, 18, 13188-13199.	3.8	78
4	Rapid identification of staphylococci by Raman spectroscopy. <i>Scientific Reports</i> , 2017, 7, 14846.	3.3	57
5	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
6	Formation of long and thin polymer fiber using nondiffracting beam. <i>Optics Express</i> , 2006, 14, 8506.	3.4	44
7	Raman microspectroscopy of algal lipid bodies: β-carotene quantification. <i>Journal of Applied Phycology</i> , 2012, 24, 541-546.	2.8	44
8	Candida parapsilosis Biofilm Identification by Raman Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2014, 15, 23924-23935.	4.1	43
9	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
10	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
11	Microfluidic Cultivation and Laser Tweezers Raman Spectroscopy of E. coli under Antibiotic Stress. <i>Sensors</i> , 2018, 18, 1623.	3.8	34
12	Influence of Culture Media on Microbial Fingerprints Using Raman Spectroscopy. <i>Sensors</i> , 2015, 15, 29635-29647.	3.8	32
13	Effects of Infrared Optical Trapping on <i>Saccharomyces cerevisiae</i> in a Microfluidic System. <i>Sensors</i> , 2017, 17, 2640.	3.8	30
14	Enhancement of the tractor-beam™ pulling force on an optically bound structure. <i>Light: Science and Applications</i> , 2018, 7, 17135-17135.	16.6	29
15	Cyclin C: The Story of a Non-Cycling Cyclin. <i>Biology</i> , 2019, 8, 3.	2.8	28
16	Sequence anatomy of mitochondrial anion carriers. <i>FEBS Letters</i> , 2003, 534, 15-25.	2.8	27
17	Spectral tuning of lasing emission from optofluidic droplet microlasers using optical stretching. <i>Optics Express</i> , 2013, 21, 21380.	3.4	27
18	Application of laser-induced breakdown spectroscopy to the analysis of algal biomass for industrial biotechnology. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 74-75, 169-176.	2.9	26

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19	Quantitative Raman Spectroscopy Analysis of Polyhydroxyalkanoates Produced by <i>Cupriavidus necator</i> H16. <i>Sensors</i> , 2016, 16, 1808.	3.8	24
20	Stochastic dynamics of optically bound matter levitated in vacuum. <i>Optica</i> , 2021, 8, 220.	9.3	24
21	Behaviour of an optically trapped probe approaching a dielectric interface. <i>Journal of Modern Optics</i> , 2003, 50, 1615-1625.	1.3	23
22	Optical manipulation of aerosol droplets using a holographic dual and single beam trap. <i>Optics Letters</i> , 2013, 38, 4601.	3.3	22
23	The Impact of Mitochondrial Fission-Stimulated ROS Production on Pro-Apoptotic Chemotherapy. <i>Biology</i> , 2021, 10, 33.	2.8	22
24	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
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	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
27	Raman spectroscopy – a tool for rapid differentiation among microbes causing urinary tract infections. <i>Analytica Chimica Acta</i> , 2022, 1191, 339292.	5.4	17
28	Identification of individual biofilm-forming bacterial cells using Raman tweezers. <i>Journal of Biomedical Optics</i> , 2015, 20, 051038.	2.6	16
29	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
30	Tunable Soft-Matter Optofluidic Waveguides Assembled by Light. <i>ACS Photonics</i> , 2019, 6, 403-410.	6.6	16
31	Direct measurement of the temperature profile close to an optically trapped absorbing particle. <i>Optics Letters</i> , 2016, 41, 870.	3.3	13
32	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
33	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
34	Axial optical trap stiffness influenced by retro-reflected beam. <i>Journal of Optics</i> , 2007, 9, S251-S255.	1.5	10
35	Raman microspectroscopy of algal lipid bodies: β -carotene as a volume sensor. <i>Proceedings of SPIE</i> , 2011, , .	0.8	7
36	Detection of Chloroalkanes by Surface-Enhanced Raman Spectroscopy in Microfluidic Chips. <i>Sensors</i> , 2018, 18, 3212.	3.8	6

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37	Optically Transportable Optofluidic Microlasers with Liquid Crystal Cavities Tuned by the Electric Field. ACS Applied Materials & Interfaces, 2021, 13, 50657-50667.	8.0	4
38	Raman microspectroscopy of optically trapped micro- and nanoobjects. Proceedings of SPIE, 2008, , .	0.8	3
39	Precise monitoring of ultra low expansion Fabry-Perot cavity length by the use of a stabilized optical frequency comb. , 2010, , .		3
40	Monitor of mirror distance of Fabry-Perot cavity by the use of stabilized femtosecond laser comb. Proceedings of SPIE, 2010, , .	0.8	3
41	Characterization of microorganisms using Raman tweezers. Proceedings of SPIE, 2011, , .	0.8	3
42	Raman tweezers in microfluidic systems for analysis and sorting of living cells. , 2014, , .		3
43	Raman Microspectroscopic Analysis of Selenium Bioaccumulation by Green Alga <i>Chlorella vulgaris</i> . Biosensors, 2021, 11, 115.	4.7	3
44	<title>Behavior of nanoparticle and microparticle in the standing wave trap</title>. , 2001, , .		2
45	<title>Manufacturing of extremely narrow polymer fibers by non-diffracting beams</title>. , 2007, , .		2
46	Active sorting switch for biological objects. , 2010, , .		2
47	Microfluidic systems for optical sorting. , 2012, , .		2
48	Tunable WGM resonators from optically trapped dye doped liquid crystal emulsion droplets. , 2014, , .		2
49	Droplet resonator based optofluidic microlasers. , 2014, , .		2
50	Behaviour of an optically trapped probe approaching a dielectric interface. Journal of Modern Optics, 2003, 50, 1615-1625.	1.3	2
51	The use of an optically trapped microprobe for scanning details of surface. , 2003, 5259, 166.		1
52	Influence of weak reflections from dielectric interfaces on properties of optical trap. , 2003, , .		1
53	How the size of a particle approaching dielectric interface influences its behavior. , 2004, , .		1
54	Raman spectroscopy for bacterial identification and characterization. Proceedings of SPIE, 2012, , .	0.8	1

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55	Raman tweezers on bacteria: following the mechanisms of bacteriostatic versus bactericidal action. , 2014, , .		1
56	Laser tweezers Raman spectroscopy of E. coli under antibiotic stress in microfluidic chips. , 2018, , .		1
57	Multimode fiber transmission matrix obtained with internal references. , 2019, , .		1
58	Combined system for optical cutting and multiple-beam optical trapping. , 1999, 4016, 303.		0
59	<title>Use of a microprobe held by a laser beam for the study of surface reliefs</title>. , 2002, , .		0
60	Spatial structure of chromatin in hybrid cells produced by laser-induced fusion studied by optical microscopy. , 2003, 5036, 630.		0
61	Employment of laser-induced fusion of living cells for the study of spatial structure of chromatin. , 2003, , .		0
62	Combination of photopolymerization and optical micromanipulation techniques. , 2005, , .		0
63	<title>Optical tracking of micro-objects within living cells</title>. , 2006, 6180, 466.		0
64	Narrow polymer fibers obtained as a combination of photopolymerization and non-diffracting beams. , 2006, , .		0
65	Precise measurement of the length by means of DFB diode and femtosecond laser. Proceedings of SPIE, 2009, , .	0.8	0
66	Narrow-selection bandwidth of femtosecond laser comb with application to changes in optical path distance. , 2010, , .		0
67	Raman microspectroscopy based sensor of algal lipid unsaturation. Proceedings of SPIE, 2011, , .	0.8	0
68	Tunable optofluidic microlasers based on optically stretched emulsion droplets. , 2013, , .		0
69	Monitoring the influence of antibiotic exposure using Raman spectroscopy. Proceedings of SPIE, 2014, , .	0.8	0
70	Anomalous behavior of a three-dimensional, optically trapped, super-paramagnetic particle. , 2014, , .		0
71	Reproducible and time-course study of yeast biofilm by Raman spectroscopy. Proceedings of SPIE, 2014, , .	0.8	0
72	Raman tweezers in microfluidic systems for analysis and sorting of living cells. , 2014, , .		0

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73	Liquid crystal emulsion micro-droplet WGM resonators. Proceedings of SPIE, 2014, , .	0.8	0
74	Time-resolved study of microorganisms by Raman spectroscopy. Proceedings of SPIE, 2015, , .	0.8	0
75	Temperature-induced tuning of emission spectra of liquid-crystal optical microcavities. Proceedings of SPIE, 2016, , .	0.8	0
76	Raman spectroscopy to monitor the effects of temperature regime and medium composition on micro-organism growth. Proceedings of SPIE, 2016, , .	0.8	0
77	Two-photon photopolymerization with multiple laser beams. Proceedings of SPIE, 2016, , .	0.8	0
78	Directed evolution of enzymes using microfluidic chips. , 2016, , .		0
79	Surface-enhanced Raman Spectroscopy in Microfluidic Chips for Directed Evolution of Enzymes and Environmental Monitoring. , 2019, , .		0
80	Optically bound matter levitated in vacuum. , 2021, , .		0
81	Raman-Tweezers Optofluidic System for Automatic Analysis and Sorting of Living Cells. , 2015, , .		0
82	Time-resolved study of microorganisms by Raman spectroscopy. , 2015, , .		0
83	Optically Trapped Droplets of Liquid Crystals as Flexible, Tunable Optofluidic Microcavities. , 2017, , .		0
84	Motion of optically bound particles in tractor beam. , 2018, , .		0
85	Measurement system for characterization of angular and spectral distribution of LED-based sources. , 2018, , .		0
86	Surface-enhanced Raman spectroscopy of chloroalkanes in microfluidic chips. , 2018, , .		0
87	Analysis of microorganisms, chlorinated hydrocarbons and hyaluronic acid gel using Raman based optofluidic techniques and SERS. , 2019, , .		0