

Irma ChacÃ³n

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9860799/publications.pdf>

Version: 2024-02-01

55
papers

2,593
citations

236925

25
h-index

206112

48
g-index

57
all docs

57
docs citations

57
times ranked

3327
citing authors

#	ARTICLE	IF	CITATIONS
1	The human body at cellular resolution: the NIH Human Biomolecular Atlas Program. <i>Nature</i> , 2019, 574, 187-192.	27.8	393
2	A Low-Threshold, High-Efficiency Microfluidic Waveguide Laser. <i>Journal of the American Chemical Society</i> , 2005, 127, 8952-8953.	13.7	297
3	Dynamic control of liquid-core/liquid-cladding optical waveguides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12434-12438.	7.1	287
4	Recent Advances in Wearable Sensors for Health Monitoring. <i>IEEE Sensors Journal</i> , 2015, 15, 3119-3126.	4.7	250
5	V:YAG - a new passive Q-switch for diode-pumped solid-state lasers. <i>Applied Physics B: Lasers and Optics</i> , 1998, 67, 555-558.	2.2	154
6	Measurement of the Phase Diagram of DNA Unzipping in the Temperature-Force Plane. <i>Physical Review Letters</i> , 2004, 93, 078101.	7.8	99
7	The Diuretic Effect in Human Subjects of an Extract of <i>Taraxacum officinale</i> Folium over a Single Day. <i>Journal of Alternative and Complementary Medicine</i> , 2009, 15, 929-934.	2.1	88
8	In vivo labeling of adult neural progenitors for MRI with micron sized particles of iron oxide: Quantification of labeled cell phenotype. <i>NeuroImage</i> , 2009, 44, 671-678.	4.2	68
9	Ipsilateral cortical fMRI responses after peripheral nerve damage in rats reflect increased interneuron activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 14114-14119.	7.1	67
10	Diffusion-controlled optical elements for optofluidics. <i>Applied Physics Letters</i> , 2005, 87, 181105.	3.3	61
11	Blue microchip laser fabricated from Nd:YAG and KNbO ₃ . <i>Optics Letters</i> , 1996, 21, 198.	3.3	49
12	Wearable technologies for active living and rehabilitation: Current research challenges and future opportunities. <i>Journal of Rehabilitation and Assistive Technologies Engineering</i> , 2019, 6, 205566831983960.	0.9	49
13	Q-switching of a diode-pumped Nd:YVO ₄ laser using a quadrupole electro-optic deflector. <i>Applied Physics B: Lasers and Optics</i> , 1998, 67, 267-270.	2.2	47
14	Fabrication of planar optical waveguides by electrical microcontact printing. <i>Applied Physics Letters</i> , 2004, 84, 1623-1625.	3.3	44
15	Controlled transport of magnetic particles using soft magnetic patterns. <i>Applied Physics Letters</i> , 2008, 93, 203901.	3.3	42
16	Characterisation of an extended cavity violet diode laser. <i>Optics Communications</i> , 2000, 175, 185-188.	2.1	37
17	A comparative study of diode pumped microchip laser materials: Nd-doped YVO ₄ , YOS, SFAP and SVAP. <i>Journal of Modern Optics</i> , 1996, 43, 1079-1087.	1.3	36
18	Self-Q-switched Nd:YVO ₄ microchip lasers. <i>Optics Letters</i> , 1998, 23, 457.	3.3	35

#	ARTICLE	IF	CITATIONS
19	Guiding effects in Nd:YVO/sub 4/ microchip lasers operating well above threshold. IEEE Journal of Quantum Electronics, 1999, 35, 675-681.	1.9	34
20	Beth's experiment using optical tweezers. American Journal of Physics, 2001, 69, 271-276.	0.7	32
21	All-solid-state, tunable, single-frequency source of yellow light for high-resolution spectroscopy. Optics Letters, 2001, 26, 1013.	3.3	29
22	Microchip Nd:vanadate lasers at 1342 and 671 nm. Optics Letters, 1997, 22, 1781.	3.3	28
23	Polarization effects, birefringent filtering, and single-frequency operation in lasers containing a birefringent gain crystal. IEEE Journal of Quantum Electronics, 2000, 36, 228-235.	1.9	28
24	A polarisation spectrometer locked diode laser for trapping cold atoms. Optics Communications, 1999, 170, 79-84.	2.1	26
25	Optical waveguiding in suspensions of dielectric particles. Applied Optics, 2005, 44, 7853.	2.1	26
26	Compact low-threshold Q-switched intracavity optical parametric oscillator. Optics Letters, 1998, 23, 1348.	3.3	21
27	Enhancement of Phase Space Density by Increasing Trap Anisotropy in a Magneto-Optical Trap with a Large Number of Atoms. Physical Review Letters, 2004, 92, 183001.	7.8	18
28	Unravelling DNA. Contemporary Physics, 2004, 45, 277-302.	1.8	18
29	Delivery of fluorescent probes using iron oxide particles as carriers enables in-vivo labeling of migrating neural precursors for magnetic resonance imaging and optical imaging. Journal of Biomedical Optics, 2007, 12, 051504.	2.6	18
30	Microchip laser-pumped continuous-wave doubly resonant optical parametric oscillator. Optics Letters, 1998, 23, 517.	3.3	15
31	A visible extended cavity diode laser for the undergraduate laboratory. American Journal of Physics, 2000, 68, 925-931.	0.7	15
32	Compact, robust source of cold atoms for efficient loading of a magnetic guide. Optics Communications, 2003, 226, 259-266.	2.1	15
33	Force Spectroscopy with Optical and Magnetic Tweezers. , 2008, , 23-96.		15
34	Compact, actively Q-switched optical parametric oscillator. Optics Letters, 1999, 24, 1614.	3.3	14
35	Ferromagnets for integrated atom optics. Journal of Applied Physics, 2004, 95, 4404-4407.	2.5	14
36	Integrating virtual internships into online classrooms. Journal of Commercial Biotechnology, 2009, 15, 97-112.	0.4	14

#	ARTICLE	IF	CITATIONS
37	Suppression of photon rescattering due to spatial anisotropy in a cold atomic gas. <i>Physical Review A</i> , 2003, 67, .	2.5	13
38	Toward mapping the human body at a cellular resolution. <i>Molecular Biology of the Cell</i> , 2018, 29, 1779-1785.	2.1	11
39	Accelerating a paradigm shift: The Common Fund Single Cell Analysis Program. <i>Science Advances</i> , 2018, 4, eaat8573.	10.3	11
40	Lambda exonuclease digestion of CGG trinucleotide repeats. <i>European Biophysics Journal</i> , 2010, 39, 337-343.	2.2	10
41	Coherent Matter-Wave Manipulation in the Diabatic Limit. <i>Physical Review Letters</i> , 2004, 92, 180404.	7.8	9
42	Frequency standards, metrology and fundamental constants. <i>Contemporary Physics</i> , 2003, 44, 99-135.	1.8	8
43	Building the infrastructure to accelerate evidence-generating mobile and wireless health research: National Institutes of Health and National Science Foundation perspectives. <i>Translational Behavioral Medicine</i> , 2018, 8, 295-298.	2.4	6
44	Stabilization of an 852nm extended cavity diode laser using the Zeeman effect. <i>Journal of Modern Optics</i> , 2000, 47, 1933-1940.	1.3	5
45	Impacts of magnesium ions on the unzipping of λ -phage DNA. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S205-S213.	1.8	5
46	Spatial and temporal tools for building a human cell atlas. <i>Molecular Biology of the Cell</i> , 2019, 30, 2435-2438.	2.1	3
47	A compact high-performance extended-cavity diode laser at 635nm. <i>Journal of Modern Optics</i> , 1999, 46, 1787-1791.	1.3	2
48	Dynamic control of liquid-core/liquid-cladding optical waveguides. , 2005, , .		2
49	A compact high-performance extended-cavity diode laser at 635 nm. <i>Journal of Modern Optics</i> , 1999, 46, 1787-1791.	1.3	1
50	A Diode Array Pumped Continuous Wave Blue Microchip Laser. , 1996, , .		1
51	Laser cooling in anisotropic traps. , 2004, , IMM4.		0
52	Coherent matter-wave manipulation in the diabatic limit. , 2004, , .		0
53	Multifunctional Nanoscale Delivery Systems for Nucleic Acids. , 2014, , 475-512.		0
54	Developing a Comprehensive Taxonomy for Human Cell Types. , 2015, , 123-151.		0

#	ARTICLE	IF	CITATIONS
55	Integrating virtual internships into online classrooms. Journal of Commercial Biotechnology, 0, 15, .	0.4	0