Irma ChacÃ³n

List of Publications by Year
in descending order

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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. Nature, 2019, 574, 187-192.	27.8	393
2	Spatial and temporal tools for building a human cell atlas. Molecular Biology of the Cell, 2019, 30, 2435-2438.	2.1	3
3	Wearable technologies for active living and rehabilitation: Current research challenges and future opportunities. Journal of Rehabilitation and Assistive Technologies Engineering, 2019, 6, 205566831983960.	0.9	49
4	Building the infrastructure to accelerate evidence-generating mobile and wireless health research: National Institutes of Health and National Science Foundation perspectives. Translational Behavioral Medicine, 2018, 8, 295-298.	2.4	6
5	Toward mapping the human body at a cellular resolution. Molecular Biology of the Cell, 2018, 29, 1779-1785.	2.1	11
6	Accelerating a paradigm shift: The Common Fund Single Cell Analysis Program. Science Advances, 2018, 4, eaat8573.	10.3	11
7	Recent Advances in Wearable Sensors for Health Monitoring. IEEE Sensors Journal, 2015, 15, 3119-3126.	4.7	250
8	Developing a Comprehensive Taxonomy for Human Cell Types. , 2015, , 123-151.		0
9	Multifunctional Nanoscale Delivery Systems for Nucleic Acids. , 2014, , 475-512.		0
10	Lambda exonuclease digestion of CGG trinucleotide repeats. European Biophysics Journal, 2010, 39, 337-343.	2.2	10
11	Ipsilateral cortical fMRI responses after peripheral nerve damage in rats reflect increased interneuron activity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14114-14119.	7.1	67
12	The Diuretic Effect in Human Subjects of an Extract ofTaraxacum officinaleFolium over a Single Day. Journal of Alternative and Complementary Medicine, 2009, 15, 929-934.	2.1	88
13	In vivo labeling of adult neural progenitors for MRI with micron sized particles of iron oxide: Quantification of labeled cell phenotype. NeuroImage, 2009, 44, 671-678.	4.2	68
14	Integrating virtual internships into online classrooms. Journal of Commercial Biotechnology, 2009, 15, 97-112.	0.4	14
15	Controlled transport of magnetic particles using soft magnetic patterns. Applied Physics Letters, 2008, 93, 203901.	3.3	42
16	Force Spectroscopy with Optical and Magnetic Tweezers. , 2008, , 23-96.		15
17	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
18	Impacts of magnesium ions on the unzipping of Î»-phage DNA. Journal of Physics Condensed Matter, 2006, 18, S205-S213.	1.8	5

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19	Diffusion-controlled optical elements for optofluidics. Applied Physics Letters, 2005, 87, 181105.	3.3	61
20	Dynamic control of liquid-core/liquid-cladding optical waveguides. , 2005, , .		2
21	A Low-Threshold, High-Efficiency Microfluidic Waveguide Laser. Journal of the American Chemical Society, 2005, 127, 8952-8953.	13.7	297
22	Optical waveguiding in suspensions of dielectric particles. Applied Optics, 2005, 44, 7853.	2.1	26
23	Laser cooling in anisotropic traps. , 2004, , IMM4.		0
24	Coherent Matter-Wave Manipulation in the Diabatic Limit. Physical Review Letters, 2004, 92, 180404.	7.8	9
25	Fabrication of planar optical waveguides by electrical microcontact printing. Applied Physics Letters, 2004, 84, 1623-1625.	3.3	44
26	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
27	Measurement of the Phase Diagram of DNA Unzipping in the Temperature-Force Plane. Physical Review Letters, 2004, 93, 078101.	7.8	99
28	Dynamic control of liquid-core/liquid-cladding optical waveguides. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12434-12438.	7.1	287
29	Ferromagnets for integrated atom optics. Journal of Applied Physics, 2004, 95, 4404-4407.	2.5	14
30	Unravelling DNA. Contemporary Physics, 2004, 45, 277-302.	1.8	18
31	Coherent matter-wave manipulation in the diabatic limit. , 2004, , .		0
32	Compact, robust source of cold atoms for efficient loading of a magnetic guide. Optics Communications, 2003, 226, 259-266.	2.1	15
33	Suppression of photon rescattering due to spatial anisotropy in a cold atomic gas. Physical Review A, 2003, 67, .	2.5	13
34	Frequency standards, metrology and fundamental constants. Contemporary Physics, 2003, 44, 99-135.	1.8	8
35	All-solid-state, tunable, single-frequency source of yellow light for high-resolution spectroscopy. Optics Letters, 2001, 26, 1013.	3.3	29
36	Bethâ€™s experiment using optical tweezers. American Journal of Physics, 2001, 69, 271-276.	0.7	32

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37	Characterisation of an extended cavity violet diode laser. Optics Communications, 2000, 175, 185-188.	2.1	37
38	A visible extended cavity diode laser for the undergraduate laboratory. American Journal of Physics, 2000, 68, 925-931.	0.7	15
39	Stabilization of an 852nm extended cavity diode laser using the Zeeman effect. Journal of Modern Optics, 2000, 47, 1933-1940.	1.3	5
40	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
41	A compact high-performance extended-cavity diode laser at 635nm. Journal of Modern Optics, 1999, 46, 1787-1791.	1.3	2
42	A compact high-performance extended-cavity diode laser at 635 nm. Journal of Modern Optics, 1999, 46, 1787-1791.	1.3	1
43	A polarisation spectrometer locked diode laser for trapping cold atoms. Optics Communications, 1999, 170, 79-84.	2.1	26
44	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
45	Compact, actively Q-switched optical parametric oscillator. Optics Letters, 1999, 24, 1614.	3.3	14
46	Q-switching of a diode-pumped Nd:YVO 4 laser using a quadrupole electro-optic deflector. Applied Physics B: Lasers and Optics, 1998, 67, 267-270.	2.2	47
47	V:YAG - a new passive Q-switch for diode-pumped solid-state lasers. Applied Physics B: Lasers and Optics, 1998, 67, 555-558.	2.2	154
48	Self-Q-switched Nd:YVO_4 microchip lasers. Optics Letters, 1998, 23, 457.	3.3	35
49	Microchip laserâ€“pumped continuous-wave doubly resonant optical parametric oscillator. Optics Letters, 1998, 23, 517.	3.3	15
50	Compact low-threshold Q-switched intracavity optical parametric oscillator. Optics Letters, 1998, 23, 1348.	3.3	21
51	Microchip Nd:vanadate lasers at 1342 and 671â€‰nm. Optics Letters, 1997, 22, 1781.	3.3	28
52	Blue microchip laser fabricated from Nd:YAG and KNbO3. Optics Letters, 1996, 21, 198.	3.3	49
53	A comparative study of diode pumped microchip laser materials: Nd-doped YVO₄, YOS, SFAP and SVAP. Journal of Modern Optics, 1996, 43, 1079-1087.	1.3	36
54	A Diode Array Pumped Continuous Wave Blue Microchip Laser. , 1996, , .		1

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