

# Jerome Extermann

## List of Publications by Year in descending order

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45  
papers

877  
citations

471509

17  
h-index

454955

30  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1158  
citing authors

#	ARTICLE	IF	CITATIONS
1	Harmonic Nanocrystals for Biolabeling: A Survey of Optical Properties and Biocompatibility. ACS Nano, 2012, 6, 2542-2549.	14.6	174
2	Polar Fe(IO <sub>3</sub> ) <sub>3</sub> nanocrystals as local probes for nonlinear microscopy. Applied Physics B: Lasers and Optics, 2007, 87, 399-403.	2.2	98
3	Nanodoublers as deep imaging markers for multi-photon microscopy. Optics Express, 2009, 17, 15342.	3.4	71
4	Ensemble and Individual Characterization of the Nonlinear Optical Properties of ZnO and BaTiO <sub>3</sub> Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 15140-15146.	3.1	54
5	Nano-FROG: Frequency resolved optical gating by a nanometric object. Optics Express, 2008, 16, 10405.	3.4	45
6	Visible spectrum extended-focus optical coherence microscopy for label-free sub-cellular tomography. Biomedical Optics Express, 2017, 8, 3343.	2.9	39
7	32TW atmospheric white-light laser. Applied Physics Letters, 2007, 90, 151106.	3.3	34
8	High-speed Tracking of Murine Cardiac Stem Cells by Harmonic Nanodoublers. Small, 2012, 8, 2752-2756.	10.0	34
9	Multiobjective genetic approach for optimal control of photoinduced processes. Physical Review A, 2007, 76, .	2.5	32
10	Evanescence-Field-Induced Second Harmonic Generation by Noncentrosymmetric Nanoparticles. Optics Express, 2010, 18, 23218.	3.4	32
11	Longitudinal three-dimensional visualisation of autoimmune diabetes by functional optical coherence imaging. Diabetologia, 2016, 59, 550-559.	6.3	30
12	Characterization of a MEMS-based pulse-shaping device in the deep ultraviolet. Applied Physics B: Lasers and Optics, 2009, 96, 757-761.	2.2	27
13	Optical projection tomography for rapid whole mouse brain imaging. Biomedical Optics Express, 2017, 8, 5637.	2.9	26
14	Spectral phase, amplitude, and spatial modulation from ultraviolet to infrared with a reflective MEMS pulse shaper. Optics Express, 2011, 19, 7580.	3.4	20
15	Ultraviolet and near-infrared femtosecond temporal pulse shaping with a new high-aspect-ratio one-dimensional micromirror array. Optics Letters, 2010, 35, 3102.	3.3	19
16	Identification of biological microparticles using ultrafast depletion spectroscopy. Faraday Discussions, 2008, 137, 37-49.	3.2	18
17	NIR-emitting and photo-thermal active nanogold as mitochondria-specific probes. Biomaterials Science, 2017, 5, 966-971.	5.4	17
18	3D Time-lapse Imaging and Quantification of Mitochondrial Dynamics. Scientific Reports, 2017, 7, 43275.	3.3	14

#	ARTICLE	IF	CITATIONS
19	Design, simulation, fabrication, packaging, and characterization of a MEMS-based mirror array for femtosecond pulse-shaping in phase and amplitude. Review of Scientific Instruments, 2011, 82, 075106.	1.3	10
20	Label-free fast 3D coherent imaging reveals pancreatic islet micro-vascularization and dynamic blood flow. Biomedical Optics Express, 2016, 7, 4569.	2.9	10
21	An inexpensive nonlinear medium for intense ultrabroadband pulse characterization. Applied Physics B: Lasers and Optics, 2009, 97, 537-540.	2.2	9
22	Interferometric synthetic aperture microscopy for extended focus optical coherence microscopy. Optics Express, 2017, 25, 30807.	3.4	8
23	Imaging of cortical structures and microvasculature using extended-focus optical coherence tomography at 13 $\mu$ m. Optics Letters, 2018, 43, 1782.	3.3	8
24	Effects of atmospheric turbulence on remote optimal control experiments. Applied Physics Letters, 2008, 92, 041103.	3.3	7
25	Discriminating Biomolecules with Coherent Control Strategies. Chimia, 2011, 65, 346.	0.6	7
26	Discriminability of tryptophan containing dipeptides using quantum control. Applied Physics B: Lasers and Optics, 2013, 111, 541-549.	2.2	7
27	Statistical parametric mapping of stimuli evoked changes in total blood flow velocity in the mouse cortex obtained with extended-focus optical coherence microscopy. Biomedical Optics Express, 2017, 8, 1.	2.9	6
28	High aspect ratio micromirror array with two degrees of freedom for femtosecond pulse shaping. Proceedings of SPIE, 2010, , .	0.8	5
29	High resolution optical projection tomography platform for multispectral imaging of the mouse gut. Biomedical Optics Express, 2021, 12, 3619.	2.9	5
30	Large linear micromirror array for UV femtosecond laser pulse shaping. , 2008, , .		2
31	Shaping light with MOEMS. , 2011, , .		2
32	Statistical distortion of supervised learning predictions in optical microscopy induced by image compression. Scientific Reports, 2022, 12, 3464.	3.3	2
33	On the sensitivity of a hollow sphere as a multi-modal resonant gravitational wave detector. Classical and Quantum Gravity, 2007, 24, 2231-2251.	4.0	1
34	Linear micromirror array for broadband femtosecond pulse shaping in phase and amplitude. Proceedings of SPIE, 2009, , .	0.8	1
35	MEMS for femtosecond pulse shaping applications. , 2009, , .		1
36	Harmonic Nanoparticles for Regenerative Research. Journal of Visualized Experiments, 2014, , .	0.3	1

#	ARTICLE	IF	CITATIONS
37	A Multi-Objective Genetic Approach for Optimal Control of Photo-Induced Processes. , 2007, , .		1
38	TW lasers in air: ultra-high powers and optimal control strategies. Proceedings of SPIE, 2007, , .	0.8	0
39	Linear MEMS micromirror array for UV-NIR femtosecond pulse shaping. , 2010, , .		0
40	Harmonic Nanoparticles: High-Speed Tracking of Murine Cardiac Stem Cells by Harmonic Nanodoublers (Small 17/2012). Small, 2012, 8, 2614-2614.	10.0	0
41	Optimal Dynamic Discrimination in Tryptophan-Containing Dipeptides. EPJ Web of Conferences, 2013, 41, 07012.	0.3	0
42	Three dimensional time lapse imaging of live cell mitochondria with photothermal optical lock-in optical coherence microscopy (Conference Presentation). , 2016, , .		0
43	Statistical parametric mapping of stimuli-evoked changes in quantitative blood flow using extended-focus optical coherence microscopy (Conference Presentation). , 2016, , .		0
44	Optical Coherence Microscopy From Tissue to Cell. , 2014, , .		0
45	Brain imaging with extended-focus optical coherence tomography at different scales and spectral ranges (Conference Presentation). , 2019, , .		0