Peter J Lu

List of Publications by Year
in descending order

34 papers	2,661 citations	448610 19 h-index	425179 34 g-index
36 all docs	36 docs citations	36 times ranked	3207 citing authors

#	Article	IF	Citations
1	High-throughput, single-microbe genomics with strain resolution, applied to a human gut microbiome. Science, 2022, 376, .	6.0	100
2	Effects of Vimentin Intermediate Filaments on the Structure and Dynamics of InÂVitro Multicomponent Interpenetrating Cytoskeletal Networks. Physical Review Letters, 2021, 127, 108101.	2.9	15
3	Selective cell encapsulation, lysis, pico-injection and size-controlled droplet generation using traveling surface acoustic waves in a microfluidic device. Lab on A Chip, 2020, 20, 3914-3921.	3.1	26
4	Traveling surface acoustic wave (TSAW) microfluidic fluorescence activated cell sorter (Î¼FACS). Lab on A Chip, 2019, 19, 2435-2443.	3.1	63
5	Stable, Fluorescent Polymethylmethacrylate Particles for the Long-Term Observation of Slow Colloidal Dynamics. Langmuir, 2017, 33, 6382-6389.	1.6	18
6	Axial Confocal Tomography of Capillary-Contained Colloidal Structures. Langmuir, 2017, 33, 13343-13349.	1.6	2
7	Image windowing mitigates edge effects in Differential Dynamic Microscopy. European Physical Journal E, 2017, 40, 97.	0.7	21
8	Crystallization and reentrant melting of charged colloids in nonpolar solvents. Physical Review E, 2015, 91, 030301.	0.8	32
9	Colloidal Particles: Crystals, Glasses, and Gels. Annual Review of Condensed Matter Physics, 2013, 4, 217-233.	5.2	225
10	Locating particles accurately in microscope images requires image-processing kernels to be rotationally symmetric. Optics Express, 2013, 21, 30755.	1.7	20
11	Enhanced tunneling conductivity induced by gelation of attractive colloids. Physical Review E, 2013, 87, 062312.	0.8	10
12	High dynamic range optical projection tomography (HDR-OPT). Optics Express, 2012, 20, 8824.	1.7	26
13	Characterizing Concentrated, Multiply Scattering, and Actively Driven Fluorescent Systems with Confocal Differential Dynamic Microscopy. Physical Review Letters, 2012, 108, 218103.	2.9	90
14	Using Medieval Architecture as Inspiration for Display Design: Parameter Interrelationships and Organizational Structure. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 1799-1803.	0.2	3
15	Robust and economical multi-sample, multi-wavelength UV/vis absorption and fluorescence detector for biological and chemical contamination. AIP Advances, 2012, 2, 032110.	0.6	2
16	Rapid and Robust Detection Methods for Poison and Microbial Contamination. Journal of Agricultural and Food Chemistry, 2012, 60, 6349-6358.	2.4	12
17	Icosahedrite, Al63Cu24Fe13, the first natural quasicrystal. American Mineralogist, 2011, 96, 928-931.	0.9	165
18	Orders-of-magnitude performance increases in GPU-accelerated correlation of images from the International Space Station. Journal of Real-Time Image Processing, 2010, 5, 179-193.	2.2	27

#	Article	IF	Citations
19	Drying of Complex Suspensions. Physical Review Letters, 2010, 104, 128303.	2.9	18
20	Gravitational compression of colloidal gels. European Physical Journal E, 2009, 28, 159-164.	0.7	20
21	Natural Quasicrystals. Science, 2009, 324, 1306-1309.	6.0	243
22	Gelation of particles with short-range attraction. Nature, 2008, 453, 499-503.	13.7	811
23	Gelation as arrested phase separation in short-ranged attractive colloidâ€“polymer mixtures. Journal of Physics Condensed Matter, 2008, 20, 494242.	0.7	78
24	Further Notes on Quasi-Crystal Tilings. Science, 2007, 316, 981-982.	6.0	11
25	Target-locking acquisition with real-time confocal (TARC) microscopy. Optics Express, 2007, 15, 8702.	1.7	46
26	Decagonal and Quasi-Crystalline Tilings in Medieval Islamic Architecture. Science, 2007, 315, 1106-1110.	6.0	185
27	Response to Comment on "Decagonal and Quasi-Crystalline Tilings in Medieval Islamic Architecture". Science, 2007, 318, 1383-1383.	6.0	12
28	Phanerozoic marine biodiversity dynamics in light of the incompleteness of the fossil record. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2736-2739.	3.3	53
29	Fluids of Clusters in Attractive Colloids. Physical Review Letters, 2006, 96, 028306.	2.9	200
30	THE EARLIEST USE OF CORUNDUM AND DIAMOND, IN PREHISTORIC CHINA*. Archaeometry, 2005, 47, 1-12.	0.6	19
31	Early Precision Compound Machine from Ancient China. Science, 2004, 304, 1638-1638.	6.0	5
32	Enthalpies of formation of lanthanide oxyapatite phases. Journal of Materials Research, 2001, 16, 2780-2783.	1.2	58
33	Identifying and Indexing Icosahedral Quasicrystals from Powder Diffraction Patterns. Physical Review Letters, 2001, 87, 275507.	2.9	31
34	Benzocyclohex-1-en-3-yne at High Temperature. Journal of the American Chemical Society, 1998, 120, 8315-8318.	6.6	14