

Steven Chu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

9,914
citations

30
h-index

61
g-index

61
ext. papers

11,795
ext. citations

20.7
avg, IF

6.56
L-index

#	Paper	IF	Citations
48	Engineering Bright and Mechanosensitive Alkaline-Earth Rare-Earth Upconverting Nanoparticles.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1547-1553	6.4	2
47	Single Particle Cathodoluminescence Spectroscopy with Sub-20 nm, Electron-Stable Phosphors. <i>ACS Photonics</i> , 2021 , 8, 1539-1547	6.3	1
46	Addressing personal protective equipment (PPE) decontamination: Methylene blue and light inactivates severe acute respiratory coronavirus virus 2 (SARS-CoV-2) on N95 respirators and medical masks with maintenance of integrity and fit. <i>Infection Control and Hospital Epidemiology</i> , 2021 , 46, 1-10	2	6
45	Three-Dimensional Analysis of Particle Distribution on Filter Layers inside N95 Respirators by Deep Learning. <i>Nano Letters</i> , 2021 , 21, 651-657	11.5	23
44	Can N95 Respirators Be Reused after Disinfection? How Many Times?. <i>ACS Nano</i> , 2020 , 14, 6348-6356	16.7	221
43	Household Materials Selection for Homemade Cloth Face Coverings and Their Filtration Efficiency Enhancement with Triboelectric Charging. <i>Nano Letters</i> , 2020 , 20, 5544-5552	11.5	130
42	Single-particle spectroscopy for functional nanomaterials. <i>Nature</i> , 2020 , 579, 41-50	50.4	82
41	A scalable method of applying heat and humidity for decontamination of N95 respirators during the COVID-19 crisis. <i>PLoS ONE</i> , 2020 , 15, e0234851	3.7	42
40	Electrochemical generation of liquid and solid sulfur on two-dimensional layered materials with distinct areal capacities. <i>Nature Nanotechnology</i> , 2020 , 15, 231-237	28.7	36
39	Electrotunable liquid sulfur microdroplets. <i>Nature Communications</i> , 2020 , 11, 606	17.4	10
38	Synergistic enhancement of electrocatalytic CO reduction to C oxygenates at nitrogen-doped nanodiamonds/Cu interface. <i>Nature Nanotechnology</i> , 2020 , 15, 131-137	28.7	92
37	Difference-Frequency Ultrasound Imaging With Non-Linear Contrast. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 1759-1766	11.7	0
36	A Single-Molecule Surface-Based Platform to Detect the Assembly and Function of the Human RNA Polymerase II Transcription Machinery. <i>Structure</i> , 2020 , 28, 1337-1343.e4	5.2	4
35	Decontamination of SARS-CoV-2 and Other RNA Viruses from N95 Level Meltblown Polypropylene Fabric Using Heat under Different Humidities. <i>ACS Nano</i> , 2020 , 14, 14017-14025	16.7	42
34	A Magneto-Optical Nanoplatform for Multimodality Imaging of Tumors in Mice. <i>ACS Nano</i> , 2019 , 13, 7750-7758	16.7	43
33	Bright sub-20-nm cathodoluminescent nanoprobes for electron microscopy. <i>Nature Nanotechnology</i> , 2019 , 14, 420-425	28.7	21
32	Optimization of the Trade-Off Between Speckle Reduction and Axial Resolution in Frequency Compounding. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 107-112	11.7	1

31	Nanodiamond Integration with Photonic Devices. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800316	8.3	32
30	Sub-20 nm Core-Shell-Shell Nanoparticles for Bright Upconversion and Enhanced Förster Resonant Energy Transfer. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16997-17005	16.4	48
29	Direct electrochemical generation of supercooled sulfur microdroplets well below their melting temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 765-770	11.5	24
28	Single upconversion nanoparticle imaging at sub-10 W cm irradiance. <i>Nature Photonics</i> , 2018 , 12, 548-553	33.9	116
27	Efficient electrocatalytic CO ₂ reduction on a three-phase interface. <i>Nature Catalysis</i> , 2018 , 1, 592-600	36.5	208
26	Cavity-Enhanced Raman Emission from a Single Color Center in a Solid. <i>Physical Review Letters</i> , 2018 , 121, 083601	7.4	25
25	A half-wave rectified alternating current electrochemical method for uranium extraction from seawater. <i>Nature Energy</i> , 2017 , 2,	62.3	216
24	Vertical-Substrate MPCVD Epitaxial Nanodiamond Growth. <i>Nano Letters</i> , 2017 , 17, 1489-1495	11.5	46
23	Atomic structure of sensitive battery materials and interfaces revealed by cryo-electron microscopy. <i>Science</i> , 2017 , 358, 506-510	33.3	714
22	The path towards sustainable energy. <i>Nature Materials</i> , 2016 , 16, 16-22	27	2141
21	Selective deposition and stable encapsulation of lithium through heterogeneous seeded growth. <i>Nature Energy</i> , 2016 , 1,	62.3	1065
20	Shelterin Protects Chromosome Ends by Compacting Telomeric Chromatin. <i>Cell</i> , 2016 , 164, 735-46	56.2	100
19	Evaluation of a Silicon Sr Betavoltaic Power Source. <i>Scientific Reports</i> , 2016 , 6, 38182	4.9	17
18	Enhancing Quantum Yield via Local Symmetry Distortion in Lanthanide-Based Upconverting Nanoparticles. <i>ACS Photonics</i> , 2016 , 3, 1523-1530	6.3	57
17	Ras-GTP dimers activate the Mitogen-Activated Protein Kinase (MAPK) pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7996-8001	11.5	185
16	Interconnected hollow carbon nanospheres for stable lithium metal anodes. <i>Nature Nanotechnology</i> , 2014 , 9, 618-23	28.7	1304
15	COHERENT CONTROL OF ULTRACOLD MATTER: FRACTIONAL QUANTUM HALL PHYSICS AND LARGE-AREA ATOM INTERFEROMETRY 2009 ,		2
14	One at a time, live tracking of NGF axonal transport using quantum dots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13666-71	11.5	307

13	The role of fluctuations in tRNA selection by the ribosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13661-5	11.5	88
12	1P557 Peptide bond formation induces the breakage of Shine-Dalgarno interaction on the ribosome(26. Single molecule biophysics,Poster Session,Abstract,Meeting Program of EABS & BSJ 2006). <i>Seibutsu Butsuri</i> , 2006 , 46, S286	0	
11	CONTROLLED ATOM-MOLECULE INTERACTIONS IN ULTRACOLD GASES. <i>Modern Physics Letters A</i> , 2003 , 18, 398-401	1.3	
10	Biology and polymer physics at the single-molecule level. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003 , 361, 689-98	3	32
9	Cold atoms and quantum control. <i>Nature</i> , 2002 , 416, 206-10	50.4	130
8	A PRELIMINARY MEASUREMENT OF h/MCs WITH ATOM INTERFEROMETRY 2002 ,		7
7	A single-molecule study of RNA catalysis and folding. <i>Science</i> , 2000 , 288, 2048-51	33.3	646
6	Active low frequency vertical vibration isolation. <i>Review of Scientific Instruments</i> , 1999 , 70, 2735-2741	1.7	73
5	Measurement of gravitational acceleration by dropping atoms. <i>Nature</i> , 1999 , 400, 849-852	50.4	603
4	Single polymer dynamics in an elongational flow. <i>Science</i> , 1997 , 276, 2016-21	33.3	726
3	The dynamics of partially extended single molecules of DNA. <i>Nature</i> , 1997 , 388, 151-4	50.4	233
2	PRECISION MEASUREMENTS IN POSITRONIUM. <i>Advanced Series on Directions in High Energy Physics</i> , 1990 , 774-821	0	10
1	Addressing Personal Protective Equipment (PPE) Decontamination: Methylene Blue and Light Inactivates SARS-CoV-2 on N95 Respirators and Masks with Maintenance of Integrity and Fit		2