Peilin Chen

List of Publications by Year
in descending order

140 papers	5,598 citations	71061 41 h-index	91828 69 g-index
142 all docs	142 docs citations	142 times ranked	9024 citing authors

#	Article	IF	Citations
1	The new X-ray/visible microscopy MAXWELL technique for fast three-dimensional nanoimaging with isotropic resolution. Scientific Reports, 2022, 12, .	1.6	2
2	Galectin-7 downregulation in lesional keratinocytes contributes to enhanced IL-17A signaling and skin pathology in psoriasis. Journal of Clinical Investigation, 2021, 131, .	3.9	35
3	Phagosomal pH Regulation: Revealing the Phagosomal pH Regulation and Inflammation of Macrophages after Endocytosing Polyurethane Nanoparticles by A Ratiometric pH Nanosensor (Adv.) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	
4	Immune cell shuttle for precise delivery of nanotherapeutics for heart disease and cancer. Science Advances, 2021, 7, .	4.7	30
5	5D superresolution imaging for a live cell nucleus. Current Opinion in Genetics and Development, 2021, 67, 77-83.	1.5	4
6	Evaluation of Nanoparticle Penetration in the Tumor Spheroid Using Two-Photon Microscopy. Biomedicines, 2021, 9, 10.	1.4	15
7	Revealing the Phagosomal pH Regulation and Inflammation of Macrophages after Endocytosing Polyurethane Nanoparticles by A Ratiometric pH Nanosensor. Advanced Biology, 2021, 5, 2000200.	1.4	7
8	Macro photography with Lighsheet Illumination Enables Whole Expanded Brain Imaging with Single-cell Resolution. Discoveries, 2021, 9, e133.	1.5	2
9	Structural and Optical Identification of Planar Side-Chain Stacking P3HT Nanowires. Macromolecules, 2021, 54, 10750-10757.	2.2	7
10	Intracellular galectins control cellular responses commensurate with cell surface carbohydrate composition. Glycobiology, 2020, 30, 36-48.	1.3	10
11	Two-beam interference lattice lightsheet for structured illumination microscopy. Journal Physics D: Applied Physics, 2020, 53, 044005.	1.3	6
12	Simultaneous Single-Particle Tracking and Dynamic pH Sensing Reveal Lysosome-Targetable Mesoporous Silica Nanoparticle Pathways. ACS Applied Materials & Interfaces, 2020, 12, 42472-42484.	4.0	16
13	XFEL coherent diffraction imaging for weakly scattering particles using heterodyne interference. AIP Advances, 2020, 10, .	0.6	9
14	Catcher in the rel: Nanoparticles-antibody conjugate as NF-Î¹B nuclear translocation blocker. Biomaterials, 2020, 246, 119997.	5.7	18
15	Suppression of surface defects to achieve hysteresis-free inverted perovskite solar cells via quantum dot passivation. Journal of Materials Chemistry A, 2020, 8, 5263-5274.	5.2	67
16	Three-Dimensional Super-Resolution Imaging of the Cytoskeleton in Hippocampal Neurons Using Selective Plane Illumination. Neuromethods, 2020, , 261-293.	0.2	0
17	Recent advances in the use of fluorescent nanoparticles for bioimaging. Nanomedicine, 2019, 14, 1759-1769.	1.7	53
18	Rapid single-wavelength lightsheet localization microscopy for clarified tissue. Nature Communications, 2019, 10, 4762.	5.8	25

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19	Carbon Nanotube/Conducting Polymer Hybrid Nanofibers as Novel Organic Bioelectronic Interfaces for Efficient Removal of Protein-Bound Uremic Toxins. ACS Applied Materials & Interfaces, 2019, 11, 43843-43856.	4.0	40
20	The Applications of Lattice Light-sheet Microscopy for Functional Volumetric Imaging of Hippocampal Neurons in a Three-Dimensional Culture System. Micromachines, 2019, 10, 599.	1.4	7
21	Lightsheet localization microscopy enables fast, large-scale, and three-dimensional super-resolution imaging. Communications Biology, 2019, 2, 177.	2.0	46
22	Nanofibers: Poly(3,4-ethylenedioxythiophene) Polymer Composite Bioelectrodes with Designed Chemical and Topographical Cues to Manipulate the Behavior of PC12 Neuronal Cells (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	30	1
23	Organic Electrochemical Transistors/SERS-Active Hybrid Biosensors Featuring Gold Nanoparticles Immobilized on Thiol-Functionalized PEDOT Films. Frontiers in Chemistry, 2019, 7, 281.	1.8	19
24	Real-time in vivo imaging of subpopulations of circulating tumor cells using antibody conjugated quantum dots. Journal of Nanobiotechnology, 2019, 17, 26.	4.2	27
25	Signaling pathway of globo-series glycosphingolipids and Î²1,3-galactosyltransferase V (Î²3GalT5) in breast cancer. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3518-3523.	3.3	46
26	Random and aligned electrospun PLGA nanofibers embedded in microfluidic chips for cancer cell isolation and integration with air foam technology for cell release. Journal of Nanobiotechnology, 2019, 17, 31.	4.2	41
27	Poly(3,4â€ethylenedioxythiophene) Polymer Composite Bioelectrodes with Designed Chemical and Topographical Cues to Manipulate the Behavior of PC12 Neuronal Cells. Advanced Materials Interfaces, 2019, 6, 1801576.	1.9	34
28	Critical Features for Mesoporous Silica Nanoparticles Encapsulated into Erythrocytes. ACS Applied Materials & Interfaces, 2019, 11, 4790-4798.	4.0	30
29	Loss of Gut Microbiota Alters Immune System Composition and Cripples Postinfarction Cardiac Repair. Circulation, 2019, 139, 647-659.	1.6	183
30	RNA Biomarkers: Glycan Stimulation Enables Purification of Prostate Cancer Circulating Tumor Cells on PEDOT NanoVelcro Chips for RNA Biomarker Detection (Adv. Healthcare Mater. 3/2018). Advanced Healthcare Materials, 2018, 7, 1870013.	3.9	3
31	Free-electron-laser coherent diffraction images of individual drug-carrying liposome particles in solution. Nanoscale, 2018, 10, 2820-2824.	2.8	11
32	Glycan Stimulation Enables Purification of Prostate Cancer Circulating Tumor Cells on PEDOT NanoVelcro Chips for RNA Biomarker Detection. Advanced Healthcare Materials, 2018, 7, 1700701.	3.9	38
33	The Bioimaging Applications of Mesoporous Silica Nanoparticles. The Enzymes, 2018, 43, 123-153.	0.7	14
34	Study of oxygen tension variation within live tumor spheroids using microfluidic devices and multi-photon laser scanning microscopy. RSC Advances, 2018, 8, 30320-30329.	1.7	17
35	Controlling the Interfacial Chemical and Physical Properties for Stem Cell Culture. Topics in Catalysis, 2018, 61, 1139-1147.	1.3	1
36	Recent Progress in Light Sheet Microscopy for Biological Applications. Applied Spectroscopy, 2018, 72, 1137-1169.	1.2	53

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37	Monitoring ruffling cells by lattice light-sheet microscopy. , 2018, , .		0
38	Universal wetting transition of an evaporating water droplet on hydrophobic micro- and nano-structures. Soft Matter, 2017, 13, 978-984.	1.2	47
39	Poly(3,4-ethylenedioxythiophene)-Based Nanofiber Mats as an Organic Bioelectronic Platform for Programming Multiple Capture/Release Cycles of Circulating Tumor Cells. ACS Applied Materials & Interfaces, 2017, 9, 30329-30342.	4.0	39
40	Imprinted NanoVelcro Microchips for Isolation and Characterization of Circulating Fetal Trophoblasts: Toward Noninvasive Prenatal Diagnostics. ACS Nano, 2017, 11, 8167-8177.	7.3	68
41	Large scale superres 3D imaging: light-sheet single-molecule localization microscopy (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock		0
42	Wuho Is a New Member in Maintaining Genome Stability through its Interaction with Flap Endonuclease 1. PLoS Biology, 2016, 14, e1002349.	2.6	21
43	Biomimicking Plateletâ€“Monocyte Interactions as a Novel Targeting Strategy for Heart Healing. Advanced Healthcare Materials, 2016, 5, 2686-2697.	3.9	31
44	Humidity-switch chromism of aniline-pentamer in Nafion. Journal of Polymer Research, 2016, 23, 1.	1.2	1
45	Reloadable multidrug capturing delivery system for targeted ischemic disease treatment. Science Translational Medicine, 2016, 8, 365ra160.	5.8	19
46	Flexible nanopillars to regulate cell adhesion and movement. Nanotechnology, 2016, 27, 475101.	1.3	15
47	Organic Photovoltaics and Bioelectrodes Providing Electrical Stimulation for PC12 Cell Differentiation and Neurite Outgrowth. ACS Applied Materials & Interfaces, 2016, 8, 9275-9284.	4.0	56
48	Construction of single fluorophore ratiometric pH sensors using dual-emission Mn2+-doped quantum dots. Biosensors and Bioelectronics, 2016, 84, 133-140.	5.3	33
49	Surface modified alginate microcapsules for 3D cell culture. Surface Science, 2016, 648, 47-52.	0.8	8
50	Detection of residual rifampicin in urine via fluorescence quenching of gold nanoclusters on paper. Journal of Nanobiotechnology, 2015, 13, 46.	4.2	37
51	Optimization of gold nanoparticle photoluminescence by alkanethiolation. Chemical Communications, 2015, 51, 7954-7957.	2.2	10
52	C5-O-03Nanoparticles forin vitroandin vivoOptical Imaging. Microscopy (Oxford,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	0.7	0
53	Local pH tracking in living cells. Nanoscale, 2015, 7, 4217-4225.	2.8	15
54	Nanoparticle distribution during systemic inflammation is size-dependent and organ-specific. Nanoscale, 2015, 7, 15863-15872.	2.8	74

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55	Integrated 3D conducting polymer-based bioelectronics for capture and release of circulating tumor cells. Journal of Materials Chemistry B, 2015, 3, 5103-5110.	2.9	46
56	Investigation of sizeâ€“dependent cell adhesion on nanostructured interfaces. Journal of Nanobiotechnology, 2014, 12, 54.	4.2	56
57	3D Bioelectronic Interface: Capturing Circulating Tumor Cells onto Conducting Polymerâ€Based Micro/Nanorod Arrays with Chemical and Topographical Control. Small, 2014, 10, 3012-3017.	5.2	61
58	Galectin-3 promotes HIV-1 budding via association with Alix and Gag p6. Glycobiology, 2014, 24, 1022-1035.	1.3	61
59	Estimating Youngâ€™s modulus of graphene with Raman scattering enhanced by micrometer tip. Nanotechnology, 2014, 25, 255703.	1.3	16
60	Characterization of the cleaning process on a transferred graphene. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, .	0.9	10
61	The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. Applied Physics Letters, 2013, 103, .	1.5	43
62	Raman based detection of Staphylococcus aureus utilizing single domain antibody coated nanoparticle labels and magnetic trapping. Analytical Methods, 2013, 5, 4152.	1.3	24
63	Hybrid contact and interfacial adhesion on well-defined periodic hierarchical pillars. Nanoscale, 2013, 5, 1018-1025.	2.8	14
64	Electrically tunable organic bioelectronics for spatial and temporal manipulation of neuron-like pheochromocytoma (PC-12) cells. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4321-4328.	1.1	20
65	Imaging layer number and stacking order through formulating Raman fingerprints obtained from hexagonal single crystals of few layer graphene. Nanotechnology, 2013, 24, 015702.	1.3	48
66	Multifunctional Grapheneâ€“PEDOT Microelectrodes for Onâ€Chip Manipulation of Human Mesenchymal Stem Cells. Advanced Functional Materials, 2013, 23, 4649-4656.	7.8	8
67	Electrodes: Multifunctional Grapheneâ€“PEDOT Microelectrodes for Onâ€Chip Manipulation of Human Mesenchymal Stem Cells (Adv. Funct. Mater. 37/2013). Advanced Functional Materials, 2013, 23, 4648-4648.	7.8	29
68	Identification of a novel function of the clathrin-coated structure at the plasma membrane in facilitating GM-CSF receptor-mediated activation of JAK2. Cell Cycle, 2012, 11, 3611-3626.	1.3	12
69	Surface charge effect in intracellular localization of mesoporous silicananoparticles as probed by fluorescent ratiometric pH imaging. RSC Advances, 2012, 2, 968-973.	1.7	61
70	Dual-color electrochromic films incorporating a periodic polymer nanostructure. RSC Advances, 2012, 2, 4746.	1.7	13
71	Interfacial adhesion and superhydrophobicity modulated with polymeric nanopillars using integrated nanolithography. Journal of Micromechanics and Microengineering, 2012, 22, 125026.	1.5	1
72	Improving the Light Trapping Efficiency of Plasmonic Polymer Solar Cells through Photon Management. Journal of Physical Chemistry C, 2012, 116, 20731-20737.	1.5	122

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73	Controlling vertical alignment of phthalocyanine nanofibers on transparent graphene-coated ITO electrodes for organic field emitters. Journal of Materials Chemistry, 2012, 22, 7837.	6.7	10
74	Development of Chitosan Oligosaccharide-Modified Gold Nanorods for in Vivo Targeted Delivery and Noninvasive Imaging by NIR Irradiation. Bioconjugate Chemistry, 2012, 23, 2173-2182.	1.8	65
75	Biomimetic ZnO plate twin-crystals periodical arrays. Chemical Communications, 2012, 48, 3215.	2.2	14
76	Synthesis of Tunable and Multifunctional Ni-Doped Near-Infrared QDs for Cancer Cell Targeting and Cellular Sorting. Bioconjugate Chemistry, 2012, 23, 421-430.	1.8	48
77	Performance of chromophore-type electrochromic devices employing indium tin oxide nanorod optical amplification. Solar Energy Materials and Solar Cells, 2012, 98, 191-197.	3.0	15
78	Manipulating location, polarity, and outgrowth length of neuron-like pheochromocytoma (PC-12) cells on patterned organic electrode arrays. Lab on A Chip, 2011, 11, 3674.	3.1	46
79	Facile Transfer Method for Fabricating Light-Harvesting Systems for Polymer Solar Cells. Journal of Physical Chemistry C, 2011, 115, 11864-11870.	1.5	25
80	Nanoscale Correlation between Exciton Dissociation and Carrier Transport in Silole-Containing Cyclopentadithiophene-Based Bulk Heterojunction Films. Journal of Physical Chemistry C, 2011, 115, 2398-2405.	1.5	24
81	Localization imaging using blinking quantum dots. Analyst, The, 2011, 136, 1608.	1.7	41
82	Targeted Nuclear Delivery using Peptide-Coated Quantum Dots. Bioconjugate Chemistry, 2011, 22, 1073-1080.	1.8	48
83	Surface Plasmonic Effects of Metallic Nanoparticles on the Performance of Polymer Bulk Heterojunction Solar Cells. ACS Nano, 2011, 5, 959-967.	7.3	959
84	Exploring the Formation of Focal Adhesions on Patterned Surfaces Using Superâ€Resolution Imaging. Small, 2011, 7, 2906-2913.	5.2	29
85	Development of Lipid Targeting Raman Probes for In Vivo Imaging of Caenorhabditis elegans. Chemistry - A European Journal, 2011, 17, 5165-5170.	1.7	29
86	Investigation of the growth of focal adhesions using protein nanoarrays fabricated by nanocontact printing using size tunable polymeric nanopillars. Nanotechnology, 2011, 22, 265302.	1.3	10
87	Polymeric nanopillar arrays for cell traction force measurements. Electrophoresis, 2010, 31, 3152-3158.	1.3	32
88	Correlation between Exciton Lifetime Distribution and Morphology of Bulk Heterojunction Films after Solvent Annealing. Journal of Physical Chemistry C, 2010, 114, 9062-9069.	1.5	29
89	Addressable Cell Microarrays via Switchable Superhydrophobic Surfaces. Journal of Adhesion Science and Technology, 2010, 24, 1023-1030.	1.4	4
90	Monitoring the 3D Nanostructures of Bulk Heterojunction Polymer Solar Cells Using Confocal Lifetime Imaging. Analytical Chemistry, 2010, 82, 1669-1673.	3.2	40

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91	Observation of enhanced cell adhesion and transfection efficiency on superhydrophobic surfaces. Lab on A Chip, 2010, 10, 556.	3.1	42
92	Development of Lipid Targeted Raman Probes for Caenorhabditis Elegans. , 2009, , .		0
93	Synthesis of surface enhanced Raman scattering active magnetic nanoparticles for cell labeling and sorting. Journal of Applied Physics, 2009, 105, 07B310.	1.1	14
94	Annealing effect of polymer bulk heterojunction solar cells based on polyfluorene and fullerene blend. Organic Electronics, 2009, 10, 27-33.	1.4	91
95	Revealing the spatial distribution of the site enhancement for the surface enhanced Raman scattering on the regular nanoparticle arrays. Optics Express, 2009, 17, 13974.	1.7	18
96	White-light emission from an upconverted emission with an organic triplet sensitizer. Chemical Communications, 2009, , 4064.	2.2	113
97	Surface-enhanced IRâ€“visible sum frequency generation vibrational spectroscopy. Physical Chemistry Chemical Physics, 2009, 11, 3436.	1.3	48
98	Super-resolution Localization Microscopy by Quantum Dot Blinking. , 2009, , .		0
99	Nanofluidic system for the studies of single DNA molecules. Electrophoresis, 2008, 29, 2931-2938.	1.3	11
100	Behavior of single DNA molecules in the well-ordered nanopores. Journal of Chromatography A, 2008, 1206, 72-76.	1.8	7
101	Superhydrophobic Coatings for Microdevices. Journal of Adhesion Science and Technology, 2008, 22, 1883-1891.	1.4	10
102	On chip sorting of bacterial cells using sugar-encapsulated magnetic nanoparticles. Journal of Applied Physics, 2008, 103, .	1.1	25
103	Surface modified gold nanowires for mammalian cell transfection. Nanotechnology, 2008, 19, 025103.	1.3	17
104	Functionalized Silver Nanowires for Live Cell Study. Chemistry Letters, 2008, 37, 610-611.	0.7	5
105	The interaction field in arrays of ferromagnetic barcode nanowires. Nanotechnology, 2007, 18, 435709.	1.3	45
106	Studies of Surfaceâ€Modified Gold Nanowires Inside Living Cells. Advanced Functional Materials, 2007, 17, 3707-3714.	7.8	43
107	Addressable Protein Patterning via Switchable Superhydrophobic Microarrays. Advanced Functional Materials, 2007, 17, 2680-2686.	7.8	61
108	Monolithic integration of well-ordered nanoporous structures in the microfluidic channels for bioseparation. Journal of Chromatography A, 2007, 1162, 175-179.	1.8	24

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109	High Density Addressable Protein and Cell Patterning via Switchable Superhydrophobic Microarrays. Materials Research Society Symposia Proceedings, 2006, 950, 1.	0.1	0
110	Active Patterning Using an Addressable Microfluidic Network. Advanced Materials, 2005, 17, 1866-1869.	11.1	25
111	Fabrication of Photonic Crystals in Microchannels. Materials Research Society Symposia Proceedings, 2004, 817, 159.	0.1	0
112	Fabrication of Super Water-Repellent Surfaces by Nanosphere Lithography. Materials Research Society Symposia Proceedings, 2004, 823, W11.4.1.	0.1	0
113	Fabrication of Tunable Superhydrophobic Surfaces by Nanosphere Lithography. Chemistry of Materials, 2004, 16, 561-564.	3.2	524
114	Actively Controlled Self-Assembly of Colloidal Crystals in Microfluidic Networks by Electrocapillary Forces. Journal of the American Chemical Society, 2004, 126, 8096-8097.	6.6	53
115	Fabrication of tunable superhydrophobic surfaces. , 2004, , .		17
116	Fabrication of Large-Area Periodic Nanopillar Arrays for Nanoimprint Lithography Using Polymer Colloid Masks. Advanced Materials, 2003, 15, 1065-1068.	11.1	112
117	Size- and Shape-Controlled Fabrication of Large-Area Periodic Nanopillar Arrays. Chemistry of Materials, 2003, 15, 2917-2920.	3.2	75
118	Fabrication of Size-Tunable Large-Area Periodic Silicon Nanopillar Arrays with Sub-10-nm Resolution. Journal of Physical Chemistry B, 2003, 107, 9950-9953.	1.2	73
119	Fabrication of Nanoimprint Stamps by Nanosphere Lithography. Materials Research Society Symposia Proceedings, 2003, 776, 5301.	0.1	0
120	Fabrication and Nonlinear Optical Characterization of Well-Ordered Nanopillar Arrays. Materials Research Society Symposia Proceedings, 2002, 750, 1.	0.1	0
121	Catalytic cracking of n-hexane over MoO2. Journal of Molecular Catalysis A, 2002, 184, 197-202.	4.8	24
122	CO poisoning of catalytic ethylene hydrogenation on the Pt(1 1 1) surface studied by surface sum frequency generation. Applied Catalysis A: General, 2002, 229, 147-154.	2.2	28
123	Surface structure sensitivity of high-pressure CO dissociation on Pt(), Pt() and Pt() using sum frequency generation surface vibrational spectroscopy. Surface Science, 2001, 494, 238-250.	0.8	74
124	Sum frequency generation spectroscopic study of CO/ethylene coadsorption on the Pt() surface and CO poisoning of catalytic ethylene hydrogenation. Surface Science, 2001, 494, 289-297.	0.8	49
125	Ultrahigh vacuum high-pressure reaction system for 2-infrared 1-visible sum frequency generation studies. Review of Scientific Instruments, 2001, 72, 1806.	0.6	46
126	Title is missing!. Catalysis Letters, 2000, 66, 5-11.	1.4	14

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127	Sum-frequency generation spectroscopic study of CO adsorption and dissociation on Pt(111) at high pressure and temperature. Surface Science, 2000, 463, L627-L633.	0.8	59
128	Two-dimensional Z scan for arbitrary beam shape and sample thickness. Journal of Applied Physics, 1999, 85, 7043-7050.	1.1	24
129	Lattice Dynamics of Laser-Heated GaAs Crystals by Means of Time-Resolved X-ray Diffraction. Journal of Physical Chemistry A, 1999, 103, 2359-2363.	1.1	14
130	Ultrafast Time-Resolved Transient Structures of Solids and Liquids Studied by Means of X-ray Diffraction and EXAFS. Journal of Physical Chemistry B, 1999, 103, 7081-7091.	1.2	64
131	Pulse broadening in femtosecond x-ray diffraction. Journal of Applied Physics, 1998, 83, 5546-5548.	1.1	39
132	Investigation of benzoporphyrin and azulenic compounds by two-dimensional z-scan technique. , 1998, , .		4
133	<title>Direct measurements of transient structures by means of time-resolved x-ray diffraction</title>. , 1998, , .		0
134	<title>Two-dimensional Z-scan method for the measurement of optical nonlinear effects</title>. , 1997, 3146, 160.		2
135	Time resolved heat propagation in a gold crystal by means of picosecond xâ€ray diffraction. Journal of Chemical Physics, 1996, 104, 10001-10007.	1.2	59
136	Picosecond Kinetics and Reverse Saturable Absorption of Meso-Substituted Tetrabenzoporphyrins. The Journal of Physical Chemistry, 1996, 100, 17507-17512.	2.9	71
137	Ultrashort hard x-ray pulses for time-resolved x-ray diffraction. , 1995, 2521, 13.		2
138	Picosecond time-resolved X-ray diffraction during laser-pulse heating of an Au(111) crystal. Journal of Applied Crystallography, 1995, 28, 358-362.	1.9	17
139	Nanosecond hard xâ€ray source for time resolved xâ€ray diffraction studies. Review of Scientific Instruments, 1995, 66, 5214-5217.	0.6	35
140	Efficient Raman conversion of high repetition rate, 193 nm picosecond laser pulses. Journal of Applied Physics, 1994, 76, 1409-1412.	1.1	14