

Yuri S Kivshar

List of Publications by Citations

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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.

982
papers

61,256
citations

113
h-index

204
g-index

1,226
ext. papers

73,420
ext. citations

5.8
avg. IF

8.41
L-index

#	Paper	IF	Citations
982	Fano resonances in nanoscale structures. <i>Reviews of Modern Physics</i> , 2010 , 82, 2257-2298	40.5	1967
981	Optically resonant dielectric nanostructures. <i>Science</i> , 2016 , 354,	33.3	1434
980	Dynamics of solitons in nearly integrable systems. <i>Reviews of Modern Physics</i> , 1989 , 61, 763-915	40.5	1346
979	Hyperbolic metamaterials. <i>Nature Photonics</i> , 2013 , 7, 948-957	33.9	1297
978	From metamaterials to metadevices. <i>Nature Materials</i> , 2012 , 11, 917-24	27	1289
977	Dark optical solitons: physics and applications. <i>Physics Reports</i> , 1998 , 298, 81-197	27.7	957
976	Wide-band negative permeability of nonlinear metamaterials. <i>Scientific Reports</i> , 2012 , 2, 1-4	4.9	781
975	High-Efficiency Dielectric Huygens Surfaces. <i>Advanced Optical Materials</i> , 2015 , 3, 813-820	8.1	772
974	Fano resonances in photonics. <i>Nature Photonics</i> , 2017 , 11, 543-554	33.9	759
973	Tailoring directional scattering through magnetic and electric resonances in subwavelength silicon nanodisks. <i>ACS Nano</i> , 2013 , 7, 7824-32	16.7	754
972	Metasurfaces: From microwaves to visible. <i>Physics Reports</i> , 2016 , 634, 1-72	27.7	627
971	Nonlinear dynamics of the Frenkel-Kontorova model. <i>Physics Reports</i> , 1998 , 306, 1-108	27.7	490
970	Nonradiating anapole modes in dielectric nanoparticles. <i>Nature Communications</i> , 2015 , 6, 8069	17.4	457
969	Asymmetric Metasurfaces with High-Q Resonances Governed by Bound States in the Continuum. <i>Physical Review Letters</i> , 2018 , 121, 193903	7.4	441
968	Nonlinear properties of left-handed metamaterials. <i>Physical Review Letters</i> , 2003 , 91, 037401	7.4	425
967	All-dielectric optical nanoantennas. <i>Optics Express</i> , 2012 , 20, 20599-604	3.3	387
966	Imaging-based molecular barcoding with pixelated dielectric metasurfaces. <i>Science</i> , 2018 , 360, 1105-1109	33.3	385

965	Enhanced third-harmonic generation in silicon nanoparticles driven by magnetic response. <i>Nano Letters</i> , 2014 , 14, 6488-92	11.5	383
964	Observation of discrete vortex solitons in optically induced photonic lattices. <i>Physical Review Letters</i> , 2004 , 92, 123903	7.4	360
963	Modulational instabilities in discrete lattices. <i>Physical Review A</i> , 1992 , 46, 3198-3205	2.6	348
962	Functional and nonlinear optical metasurfaces. <i>Laser and Photonics Reviews</i> , 2015 , 9, 195-213	8.3	327
961	Light propagation and localization in modulated photonic lattices and waveguides. <i>Physics Reports</i> , 2012 , 518, 1-79	27.7	318
960	Functional Meta-Optics and Nanophotonics Governed by Mie Resonances. <i>ACS Photonics</i> , 2017 , 4, 2638-2649	26.49	310
959	Self-focusing and transverse instabilities of solitary waves. <i>Physics Reports</i> , 2000 , 331, 117-195	27.7	305
958	Magnetic and electric hotspots with silicon nanodimers. <i>Nano Letters</i> , 2015 , 15, 2137-42	11.5	291
957	Polarization-Independent Silicon Metadevices for Efficient Optical Wavefront Control. <i>Nano Letters</i> , 2015 , 15, 5369-74	11.5	283
956	Observation of non-Hermitian degeneracies in a chaotic exciton-polariton billiard. <i>Nature</i> , 2015 , 526, 554-8	50.4	281
955	Ultrasensitive hyperspectral imaging and biodetection enabled by dielectric metasurfaces. <i>Nature Photonics</i> , 2019 , 13, 390-396	33.9	279
954	Spatial solitons in optically induced gratings. <i>Optics Letters</i> , 2003 , 28, 710-2	3	276
953	Optical vortices and vortex solitons. <i>Progress in Optics</i> , 2005 , 47, 291-391	3.4	276
952	Colloquium: Nonlinear metamaterials. <i>Reviews of Modern Physics</i> , 2014 , 86, 1093-1123	40.5	274
951	Ultrafast All-Optical Switching with Magnetic Resonances in Nonlinear Dielectric Nanostructures. <i>Nano Letters</i> , 2015 , 15, 6985-90	11.5	272
950	High-Q Supercavity Modes in Subwavelength Dielectric Resonators. <i>Physical Review Letters</i> , 2017 , 119, 243901	7.4	270
949	Generation and near-field imaging of Airy surface plasmons. <i>Physical Review Letters</i> , 2011 , 107, 116802	7.4	267
948	Active tuning of all-dielectric metasurfaces. <i>ACS Nano</i> , 2015 , 9, 4308-15	16.7	263

947	Subwavelength dielectric resonators for nonlinear nanophotonics. <i>Science</i> , 2020 , 367, 288-292	33.3	257
946	Fano resonances in all-dielectric oligomers. <i>Nano Letters</i> , 2012 , 12, 6459-63	11.5	257
945	Invited Article: Broadband highly efficient dielectric metadevices for polarization control. <i>APL Photonics</i> , 2016 , 1, 030801	5.2	248
944	Wire metamaterials: physics and applications. <i>Advanced Materials</i> , 2012 , 24, 4229-48	24	240
943	Broadband unidirectional scattering by magneto-electric core-shell nanoparticles. <i>ACS Nano</i> , 2012 , 6, 5489-97	16.7	238
942	Nonlinear surface waves in left-handed materials. <i>Physical Review E</i> , 2004 , 69, 016617	2.4	228
941	Hyperbolic metamaterials based on multilayer graphene structures. <i>Physical Review B</i> , 2013 , 87,	3.3	224
940	Nonlinear switching and solitons in PT-symmetric photonic systems. <i>Laser and Photonics Reviews</i> , 2016 , 10, 177-213	8.3	222
939	Laguerre and Hermite soliton clusters in nonlocal nonlinear media. <i>Physical Review Letters</i> , 2007 , 98, 053901	7.4	220
938	Peierls-Nabarro potential barrier for highly localized nonlinear modes. <i>Physical Review E</i> , 1993 , 48, 3077-3081	3.0	216
937	Grayscale transparent metasurface holograms. <i>Optica</i> , 2016 , 3, 1504	8.6	216
936	Bloch oscillations and Zener tunneling in two-dimensional photonic lattices. <i>Physical Review Letters</i> , 2006 , 96, 053903	7.4	214
935	Bose-Einstein condensates in optical lattices: Band-gap structure and solitons. <i>Physical Review A</i> , 2003 , 67,	2.6	214
934	Ultrafast control of vortex microlasers. <i>Science</i> , 2020 , 367, 1018-1021	33.3	210
933	Giant Goos-Hänchen effect at the reflection from left-handed metamaterials. <i>Applied Physics Letters</i> , 2003 , 83, 2713-2715	3.4	207
932	Nonlinear suppression of time reversals in PT-symmetric optical couplers. <i>Physical Review A</i> , 2010 , 82,	2.6	206
931	Tunable split-ring resonators for nonlinear negative-index metamaterials. <i>Optics Express</i> , 2006 , 14, 9344-9349	3.3	204
930	Stable vortex solitons in nonlocal self-focusing nonlinear media. <i>Physical Review E</i> , 2005 , 71, 065603	2.4	204

929	Giant optical manipulation. <i>Physical Review Letters</i> , 2010 , 105, 118103	7.4	200
928	Multipolar nonlinear nanophotonics. <i>Optica</i> , 2016 , 3, 1241	8.6	199
927	Generalized Kerker effects in nanophotonics and meta-optics [Invited]. <i>Optics Express</i> , 2018 , 26, 13085-13105	3.3	197
926	Efficient Polarization-Insensitive Complex Wavefront Control Using Huygens-Metasurfaces Based on Dielectric Resonant Meta-atoms. <i>ACS Photonics</i> , 2016 , 3, 514-519	6.3	193
925	Magnetoelastic metamaterials. <i>Nature Materials</i> , 2011 , 11, 30-3	27	187
924	Three-dimensional all-dielectric photonic topological insulator. <i>Nature Photonics</i> , 2017 , 11, 130-136	33.9	186
923	Photonic spin Hall effect in hyperbolic metamaterials for polarization-controlled routing of subwavelength modes. <i>Nature Communications</i> , 2014 , 5, 3226	17.4	180
922	Optical solitons in PT-symmetric nonlinear couplers with gain and loss. <i>Physical Review A</i> , 2012 , 85,	2.6	179
921	Polarized dark solitons in isotropic Kerr media. <i>Physical Review E</i> , 1997 , 55, 4773-4782	2.4	172
920	Nonlinearly PT-symmetric systems: Spontaneous symmetry breaking and transmission resonances. <i>Physical Review A</i> , 2011 , 84,	2.6	171
919	Nonlinear modes of a macroscopic quantum oscillator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001 , 278, 225-230	2.3	171
918	Nonlinear Generation of Vector Beams From AlGaAs Nanoantennas. <i>Nano Letters</i> , 2016 , 16, 7191-7197	11.5	168
917	Internal Modes of Solitary Waves. <i>Physical Review Letters</i> , 1998 , 80, 5032-5035	7.4	167
916	Solitons due to second harmonic generation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995 , 197, 407-412	2.3	167
915	Engineered optical nonlocality in nanostructured metamaterials. <i>Physical Review B</i> , 2011 , 84,	3.3	164
914	Nonradiating photonics with resonant dielectric nanostructures. <i>Nanophotonics</i> , 2019 , 8, 725-745	6.3	161
913	Observation of surface gap solitons in semi-infinite waveguide arrays. <i>Physical Review Letters</i> , 2006 , 97, 083901	7.4	158
912	Ring dark solitons and vortex necklaces in Bose-Einstein condensates. <i>Physical Review Letters</i> , 2003 , 90, 120403	7.4	157

911	Matter-wave gap solitons in atomic band-gap structures. <i>Physical Review Letters</i> , 2003 , 90, 160407	7.4	155
910	Electrically tunable all-dielectric optical metasurfaces based on liquid crystals. <i>Applied Physics Letters</i> , 2017 , 110, 071109	3.4	154
909	Second-harmonic generation in nonlinear left-handed metamaterials. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 529	1.7	152
908	Optical guiding of absorbing nanoclusters in air. <i>Optics Express</i> , 2009 , 17, 5743-57	3.3	151
907	Dynamic Beam Switching by Liquid Crystal Tunable Dielectric Metasurfaces. <i>ACS Photonics</i> , 2018 , 5, 17426-1748	15.0	150
906	Coupled-mode theory for Bose-Einstein condensates. <i>Physical Review A</i> , 2000 , 61,	2.6	150
905	Observation of Fano resonances in all-dielectric nanoparticle oligomers. <i>Small</i> , 2014 , 10, 1985-90	11	148
904	Nonlinear topological photonics. <i>Applied Physics Reviews</i> , 2020 , 7, 021306	17.3	147
903	Meta-optics and bound states in the continuum. <i>Science Bulletin</i> , 2019 , 64, 836-842	10.6	145
902	Soliton-based optical switching in waveguide arrays. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996 , 13, 876	1.7	144
901	One-way extraordinary optical transmission and nonreciprocal spoof plasmons. <i>Physical Review Letters</i> , 2010 , 105, 126804	7.4	142
900	Giant Nonlinear Response at the Nanoscale Driven by Bound States in the Continuum. <i>Physical Review Letters</i> , 2018 , 121, 033903	7.4	141
899	Surface bound states in the continuum. <i>Physical Review Letters</i> , 2012 , 108, 070401	7.4	140
898	Suppression of thermal conductivity in graphene nanoribbons with rough edges. <i>Physical Review B</i> , 2010 , 82,	3.3	139
897	Multifold Enhancement of Third-Harmonic Generation in Dielectric Nanoparticles Driven by Magnetic Fano Resonances. <i>Nano Letters</i> , 2016 , 16, 4857-61	11.5	138
896	Compact surface Fano states embedded in the continuum of waveguide arrays. <i>Physical Review Letters</i> , 2013 , 111, 240403	7.4	137
895	Anapole nanolasers for mode-locking and ultrafast pulse generation. <i>Nature Communications</i> , 2017 , 8, 15535	17.4	136
894	Spatial optical solitons governed by quadratic nonlinearity. <i>Optics Letters</i> , 1994 , 19, 1612-4	3	136

893	Angle-multiplexed all-dielectric metasurfaces for broadband molecular fingerprint retrieval. <i>Science Advances</i> , 2019 , 5, eaaw2871	14.3	135
892	Self-localization in arrays of defocusing waveguides. <i>Optics Letters</i> , 1993 , 18, 1147	3	135
891	Superdirective dielectric nanoantennas. <i>Nanoscale</i> , 2014 , 6, 7354-61	7.7	134
890	Self-trapping and stable localized modes in nonlinear photonic crystals. <i>Physical Review Letters</i> , 2001 , 86, 5474-7	7.4	134
889	Instability of solitons governed by quadratic nonlinearities. <i>Physical Review Letters</i> , 1995 , 75, 591-595	7.4	134
888	Propagation and scattering of nonlinear waves in disordered systems. <i>Physics Reports</i> , 1992 , 216, 1-61	27.7	134
887	Electro-optical switching by liquid-crystal controlled metasurfaces. <i>Optics Express</i> , 2013 , 21, 8879-85	3.3	130
886	Stable rotating dipole solitons in nonlocal optical media. <i>Optics Letters</i> , 2006 , 31, 1100-2	3	130
885	Perturbation-induced dynamics of dark solitons. <i>Physical Review E</i> , 1994 , 49, 1657-1670	2.4	129
884	Quantum metasurface for multiphoton interference and state reconstruction. <i>Science</i> , 2018 , 361, 1104-1108	33.9	127
883	Azimuthons: spatially modulated vortex solitons. <i>Physical Review Letters</i> , 2005 , 95, 203904	7.4	126
882	Resonant soliton-impurity interactions. <i>Physical Review Letters</i> , 1991 , 67, 1177-1180	7.4	126
881	Noninterleaved Metasurface for (2-1) Spin- and Wavelength-Encoded Holograms. <i>Nano Letters</i> , 2018 , 18, 8016-8024	11.5	125
880	Self-focusing of plane dark solitons in nonlinear defocusing media. <i>Physical Review E</i> , 1995 , 51, 5016-5026	2.4	123
879	Spontaneous radiation of a finite-size dipole emitter in hyperbolic media. <i>Physical Review A</i> , 2011 , 84,	2.6	119
878	Binary parity-time-symmetric nonlinear lattices with balanced gain and loss. <i>Optics Letters</i> , 2010 , 35, 2976-8	3	119
877	Nonlinear theory of oscillating, decaying, and collapsing solitons in the generalized nonlinear Schrödinger equation. <i>Physical Review E</i> , 1996 , 53, 1940-1953	2.4	119
876	Photophoretic manipulation of absorbing aerosol particles with vortex beams: theory versus experiment. <i>Optics Express</i> , 2009 , 17, 8201-11	3.3	117

875	Goos-Hänchen and Imbert-Fedorov shifts of polarized vortex beams. <i>Optics Letters</i> , 2009 , 34, 389-91	3	116
874	Nonlinear light generation in topological nanostructures. <i>Nature Nanotechnology</i> , 2019 , 14, 126-130	28.7	116
873	An antenna model for the Purcell effect. <i>Scientific Reports</i> , 2015 , 5, 12956	4.9	115
872	Water: Promising Opportunities For Tunable All-dielectric Electromagnetic Metamaterials. <i>Scientific Reports</i> , 2015 , 5, 13535	4.9	114
871	Polychromatic dynamic localization in curved photonic lattices. <i>Nature Physics</i> , 2009 , 5, 271-275	16.2	114
870	Bound states in the continuum and Fano resonances in the strong mode coupling regime. <i>Advanced Photonics</i> , 2019 , 1, 1	8.1	114
869	Efficient Second-Harmonic Generation in Nanocrystalline Silicon Nanoparticles. <i>Nano Letters</i> , 2017 , 17, 3047-3053	11.5	113
868	Light-Induced Tuning and Reconfiguration of Nanophotonic Structures. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1700108	8.3	113
867	Structural tunability in metamaterials. <i>Applied Physics Letters</i> , 2009 , 95, 084105	3.4	113
866	Spatial Solitons and Induced Kerr Effects in Quasi-Phase-Matched Quadratic Media. <i>Physical Review Letters</i> , 1997 , 78, 4749-4752	7.4	112
865	Liquid crystal based nonlinear fishnet metamaterials. <i>Applied Physics Letters</i> , 2012 , 100, 121113	3.4	111
864	Internal modes of envelope solitons. <i>Physica D: Nonlinear Phenomena</i> , 1998 , 116, 121-142	3.3	111
863	Nonlinear Metasurfaces Governed by Bound States in the Continuum. <i>ACS Photonics</i> , 2019 , 6, 1639-1644	6.3	109
862	Revisiting the physics of Fano resonances for nanoparticle oligomers. <i>Physical Review A</i> , 2013 , 88,	2.6	109
861	Bistable diode action in left-handed periodic structures. <i>Physical Review E</i> , 2005 , 71, 037602	2.4	109
860	Discrete solitons and nonlinear surface modes in semi-infinite waveguide arrays. <i>Optics Letters</i> , 2006 , 31, 1693-5	3	109
859	Beam shaping by a periodic structure with negative refraction. <i>Applied Physics Letters</i> , 2003 , 82, 3820-3822	2.4	108
858	Metamaterial tuning by manipulation of near-field interaction. <i>Physical Review B</i> , 2010 , 82,	3.3	107

857	Observation of vortex solitons created by the instability of dark soliton stripes. <i>Optics Letters</i> , 1996 , 21, 1129-31	3	107
856	Optical Anapoles: Concepts and Applications. <i>Advanced Optical Materials</i> , 2019 , 7, 1801350	8.1	106
855	Subwavelength topological edge States in optically resonant dielectric structures. <i>Physical Review Letters</i> , 2015 , 114, 123901	7.4	106
854	All-dielectric meta-optics and non-linear nanophotonics. <i>National Science Review</i> , 2018 , 5, 144-158	10.8	106
853	All-Dielectric Active Terahertz Photonics Driven by Bound States in the Continuum. <i>Advanced Materials</i> , 2019 , 31, e1901921	24	106
852	Resonant kink-impurity interactions in the sine-Gordon model. <i>Physical Review A</i> , 1992 , 45, 6019-6030	2.6	106
851	Nonlinear Wavefront Control with All-Dielectric Metasurfaces. <i>Nano Letters</i> , 2018 , 18, 3978-3984	11.5	104
850	Meta-Optics with Mie Resonances. <i>Optics and Photonics News</i> , 2017 , 28, 24	1.9	104
849	Vector dark solitons. <i>Optics Letters</i> , 1993 , 18, 337-9	3	104
848	Experimental verification of the concept of all-dielectric nanoantennas. <i>Applied Physics Letters</i> , 2012 , 100, 201113	3.4	103
847	Observation of dipole-mode vector solitons. <i>Physical Review Letters</i> , 2000 , 85, 1424-7	7.4	103
846	Pseudo-parity-time symmetry in optical systems. <i>Physical Review Letters</i> , 2013 , 110, 243902	7.4	102
845	Discreteness-Induced Oscillatory Instabilities of Dark Solitons. <i>Physical Review Letters</i> , 1999 , 82, 85-88	7.4	102
844	Plasmonic Airy beam manipulation in linear optical potentials. <i>Optics Letters</i> , 2011 , 36, 1164-6	3	101
843	Stability of Multihump Optical Solitons. <i>Physical Review Letters</i> , 1999 , 83, 296-299	7.4	101
842	Resonant Raman scattering from silicon nanoparticles enhanced by magnetic response. <i>Nanoscale</i> , 2016 , 8, 9721-6	7.7	101
841	Incoherently coupled dark-bright photorefractive solitons. <i>Optics Letters</i> , 1996 , 21, 1821-3	3	100
840	Nonlinear Interference and Tailorable Third-Harmonic Generation from Dielectric Oligomers. <i>ACS Photonics</i> , 2015 , 2, 578-582	6.3	99

- 839 Tunable transmission and harmonic generation in nonlinear metamaterials. *Applied Physics Letters*, **2008**, 93, 161903 3.4 99
- 838 Light scattering by a finite obstacle and fano resonances. *Physical Review Letters*, **2008**, 100, 043903 7.4 98
- 837 Nonlinear Fano resonance and bistable wave transmission. *Physical Review E*, **2005**, 71, 036626 2.4 98
- 836 Necklace-ring vector solitons. *Physical Review Letters*, **2001**, 87, 033901 7.4 98
- 835 Dipole-mode vector solitons. *Physical Review Letters*, **2000**, 85, 82-5 7.4 98
- 834 Lagrangian approach for dark solitons. *Optics Communications*, **1995**, 114, 353-362 2 98
- 833 Halide-Perovskite Resonant Nanophotonics. *Advanced Optical Materials*, **2019**, 7, 1800784 8.1 98
- 832 Enhancement of Magnetic Resonance Imaging with Metasurfaces. *Advanced Materials*, **2016**, 28, 1832-8 2.4 96
- 831 Topological Majorana States in Zigzag Chains of Plasmonic Nanoparticles. *ACS Photonics*, **2014**, 1, 101-105 3.3 95
- 830 Generation of second-harmonic conical waves via nonlinear bragg diffraction. *Physical Review Letters*, **2008**, 100, 103902 7.4 95
- 829 Highly sensitive biosensors based on all-dielectric nanoresonators. *Nanoscale*, **2017**, 9, 4972-4980 7.7 94
- 828 Nonlinear nanofocusing in tapered plasmonic waveguides. *Physical Review Letters*, **2010**, 105, 116804 7.4 94
- 827 Complete band gaps in one-dimensional left-handed periodic structures. *Physical Review Letters*, **2005**, 95, 193903 7.4 94
- 826 Dynamics of fluxons in a system of coupled Josephson junctions. *Physical Review B*, **1988**, 37, 9325-9330 3.3 94
- 825 Breathers in PT-symmetric optical couplers. *Physical Review A*, **2012**, 86, 2.6 92
- 824 Solitons in a chain of parity-time-invariant dimers. *Physical Review E*, **2011**, 84, 046609 2.4 92
- 823 Spatially engineered polarization states and optical vortices in uniaxial crystals. *Optics Express*, **2010**, 18, 10848-63 3.3 92
- 822 Magnetic hyperbolic optical metamaterials. *Nature Communications*, **2016**, 7, 11329 17.4 91

821	Multipolar response of nonspherical silicon nanoparticles in the visible and near-infrared spectral ranges. <i>Physical Review B</i> , 2017 , 96,	3.3	91
820	Self-focusing and spatial plasmon-polariton solitons. <i>Optics Express</i> , 2009 , 17, 21732-7	3.3	91
819	Long-range interaction and nonlinear localized modes in photonic crystal waveguides. <i>Physical Review E</i> , 2000 , 62, 5777-82	2.4	91
818	Multifold Emission Enhancement in Nanoimprinted Hybrid Perovskite Metasurfaces. <i>ACS Photonics</i> , 2017 , 4, 728-735	6.3	90
817	Substrate-Induced Resonant Magnetoelectric Effects for Dielectric Nanoparticles. <i>ACS Photonics</i> , 2015 , 2, 1423-1428	6.3	90
816	Reversible Thermal Tuning of All-Dielectric Metasurfaces. <i>Advanced Functional Materials</i> , 2017 , 27, 1700586	5.0	90
815	Optical Yagi-Uda nanoantennas. <i>Nanophotonics</i> , 2012 , 1, 65-81	6.3	90
814	Single-Mode Lasing from Imprinted Halide-Perovskite Microdisks. <i>ACS Nano</i> , 2019 , 13, 4140-4147	16.7	89
813	Shaping Photoluminescence Spectra with Magnetoelectric Resonances in All-Dielectric Nanoparticles. <i>ACS Photonics</i> , 2015 , 2, 172-177	6.3	89
812	Nonlinear plasmonic slot waveguides. <i>Optics Express</i> , 2008 , 16, 21209-14	3.3	89
811	Discrete gap solitons in modulated waveguide arrays. <i>Optics Letters</i> , 2002 , 27, 2112-4	3	89
810	Resonant kink-impurity interactions in the ϕ^4 model. <i>Physical Review A</i> , 1992 , 46, 5214-5220	2.6	89
809	Dynamics of optical spin-orbit coupling in uniaxial crystals. <i>Optics Letters</i> , 2009 , 34, 1021-3	3	88
808	Determination of topological charges of polychromatic optical vortices. <i>Optics Express</i> , 2009 , 17, 23374-3	3.3	88
807	Interaction of dark solitons with localized impurities in Bose-Einstein condensates. <i>Physical Review A</i> , 2002 , 66,	2.6	88
806	Light-Emitting Halide Perovskite Nanoantennas. <i>Nano Letters</i> , 2018 , 18, 1185-1190	11.5	87
805	Manipulating polarization of light with ultrathin epsilon-near-zero metamaterials. <i>Optics Express</i> , 2013 , 21, 14907-17	3.3	87
804	Electromagnetic wave analogue of an electronic diode. <i>New Journal of Physics</i> , 2011 , 13, 033025	2.9	87

803	Nonlinear magnetic metamaterials. <i>Optics Express</i> , 2008 , 16, 20266-71	3.3	87
802	Matter-wave gap vortices in optical lattices. <i>Physical Review Letters</i> , 2004 , 93, 160405	7.4	87
801	All-Dielectric Resonant Meta-Optics Lightens up. <i>ACS Photonics</i> , 2019 , 6, 802-814	6.3	86
800	All-Dielectric Resonant Metasurfaces with a Strong Toroidal Response. <i>ACS Photonics</i> , 2018 , 5, 1871-1876	6.3	86
799	Stability of Three-Wave Parametric Solitons in Diffractive Quadratic Media. <i>Physical Review Letters</i> , 1996 , 77, 5210-5213	7.4	86
798	Dark-soliton dynamics and shock waves induced by the stimulated Raman effect in optical fibers. <i>Physical Review A</i> , 1990 , 42, 1757-1761	2.6	86
797	Spontaneous emission enhancement in metal-dielectric metamaterials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 185-187	2.3	85
796	Metamaterials controlled with light. <i>Physical Review Letters</i> , 2012 , 109, 083902	7.4	85
795	Enhanced Magnetic Second-Harmonic Generation from Resonant Metasurfaces. <i>ACS Photonics</i> , 2015 , 2, 1007-1012	6.3	84
794	Metasurface Engineering through Bound States in the Continuum. <i>Physical Review Applied</i> , 2019 , 12,	4.3	84
793	Phase diagram for the transition from photonic crystals to dielectric metamaterials. <i>Nature Communications</i> , 2015 , 6, 10102	17.4	84
792	Dynamics of optical vortex solitons. <i>Optics Communications</i> , 1998 , 152, 198-206	2	84
791	Multiorde nonlinear diffraction in frequency doubling processes. <i>Optics Letters</i> , 2009 , 34, 848-50	3	83
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