

# Govind P Agrawal

## List of Publications by Citations

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657  
papers

20,180  
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67  
h-index

119  
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774  
ext. papers

23,663  
ext. citations

2.8  
avg, IF

7.22  
L-index

#	Paper	IF	Citations
657	<b>2002,</b>		1017
656	Long-Wavelength Semiconductor Lasers <b>1986,</b>		772
655	. <i>IEEE Journal of Quantum Electronics</i> , <b>1989</b> , 25, 2297-2306	2	744
654	Nonlinear optical phenomena in silicon waveguides: modeling and applications. <i>Optics Express</i> , <b>2007</b> , 15, 16604-44	3.3	608
653	Modulation instability induced by cross-phase modulation. <i>Physical Review Letters</i> , <b>1987</b> , 59, 880-883	7.4	368
652	<b>2010,</b>		332
651	Nonlinear optical properties of one-dimensional semiconductors and conjugated polymers. <i>Physical Review B</i> , <b>1978</b> , 17, 776-789	3.3	314
650	Population pulsations and nondegenerate four-wave mixing in semiconductor lasers and amplifiers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1988</b> , 5, 147	1.7	296
649	. <i>IEEE Photonics Technology Letters</i> , <b>1994</b> , 6, 995-997	2.2	231
648	Impact of two-photon absorption on self-phase modulation in silicon waveguides. <i>Optics Letters</i> , <b>2007</b> , 32, 2031-3	3	230
647	Soliton fission and supercontinuum generation in silicon waveguides. <i>Optics Letters</i> , <b>2007</b> , 32, 391-3	3	226
646	Nonlinear Propagation in Multimode and Multicore Fibers: Generalization of the Manakov Equations. <i>Journal of Lightwave Technology</i> , <b>2013</b> , 31, 398-406	4	199
645	Gain nonlinearities in semiconductor lasers: Theory and application to distributed feedback lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>1987</b> , 23, 860-868	2	189
644	Ultrabroadband parametric generation and wavelength conversion in silicon waveguides. <i>Optics Express</i> , <b>2006</b> , 14, 4786-99	3.3	185
643	Gaussian beam propagation beyond the paraxial approximation. <i>Journal of the Optical Society of America</i> , <b>1979</b> , 69, 575		185
642	Line narrowing in a single-mode injection laser due to external optical feedback. <i>IEEE Journal of Quantum Electronics</i> , <b>1984</b> , 20, 468-471	2	181
641	Optical properties of one-dimensional semiconductors and conjugated polymers. <i>Physical Review B</i> , <b>1977</b> , 15, 909-925	3.3	178

640	Improved transmission model for metal-dielectric-metal plasmonic waveguides with stub structure. <i>Optics Express</i> , <b>2010</b> , 18, 6191-204	3.3	172
639	Calcium silicate based microspheres of repaglinide for gastroretentive floating drug delivery: preparation and in vitro characterization. <i>Journal of Controlled Release</i> , <b>2005</b> , 107, 300-9	11.7	161
638	Mannosylated solid lipid nanoparticles as vectors for site-specific delivery of an anti-cancer drug. <i>Journal of Controlled Release</i> , <b>2010</b> , 148, 359-67	11.7	158
637	Dispersion of silicon nonlinearities in the near infrared region. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 021111	3.4	158
636	Do solitonlike self-similar waves exist in nonlinear optical media?. <i>Physical Review Letters</i> , <b>2006</b> , 97, 013904	2.6	157
635	Raman response function for silica fibers. <i>Optics Letters</i> , <b>2006</b> , 31, 3086-8	3	145
634	Optical bistability through nonlinear dispersion and absorption. <i>Physical Review A</i> , <b>1979</b> , 19, 2074-2086	2.6	135
633	Optical pulse propagation in doped fiber amplifiers. <i>Physical Review A</i> , <b>1991</b> , 44, 7493-7501	2.6	131
632	Nonlinear fiber optics: its history and recent progress [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2011</b> , 28, A1	1.7	129
631	<b>2005</b> ,		127
630	Photon-pair generation in optical fibers through four-wave mixing: Role of Raman scattering and pump polarization. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	125
629	Modulation instability induced by cross-phase modulation in optical fibers. <i>Physical Review A</i> , <b>1989</b> , 39, 3406-3413	2.6	121
628	Optical similaritons in nonlinear waveguides. <i>Optics Letters</i> , <b>2007</b> , 32, 1659-61	3	119
627	Gelatin nanocarriers as potential vectors for effective management of tuberculosis. <i>International Journal of Pharmaceutics</i> , <b>2010</b> , 385, 143-9	6.5	116
626	Laser instabilities: a modern perspective. <i>Progress in Quantum Electronics</i> , <b>1998</b> , 22, 43-122	9.1	116
625	Development and characterization of hyaluronic acid-anchored PLGA nanoparticulate carriers of doxorubicin. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2007</b> , 3, 246-57	6	116
624	Nonlinear mechanisms of filamentation in broad-area semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>1996</b> , 32, 590-596	2	115
623	Nonlinear pulse distortion in single-mode optical fibers at the zero-dispersion wavelength. <i>Physical Review A</i> , <b>1986</b> , 33, 1765-1776	2.6	115

622	Adapalene loaded solid lipid nanoparticles gel: an effective approach for acne treatment. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 121, 222-9	6	112
621	. <i>IEEE Journal of Quantum Electronics</i> , <b>1994</b> , 30, 668-679	2	109
620	Fast-Fourier-transform based beam-propagation model for stripe-geometry semiconductor lasers: Inclusion of axial effects. <i>Journal of Applied Physics</i> , <b>1984</b> , 56, 3100-3109	2.5	105
619	. <i>IEEE Journal of Quantum Electronics</i> , <b>1988</b> , 24, 2407-2414	2	104
618	Spatiotemporal solitons in inhomogeneous nonlinear media. <i>Optics Communications</i> , <b>2000</b> , 180, 377-382		103
617	Induced focusing of optical beams in self-defocusing nonlinear media. <i>Physical Review Letters</i> , <b>1990</b> , 64, 2487-2490	7.4	100
616	Propagation-induced polarization changes in partially coherent optical beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2000</b> , 17, 2019-23	1.8	99
615	Temporal and spectral effects of cross-phase modulation on copropagating ultrashort pulses in optical fibers. <i>Physical Review A</i> , <b>1989</b> , 40, 5063-5072	2.6	95
614	Raman-induced spectral shifts in optical fibers: general theory based on the moment method. <i>Optics Communications</i> , <b>2003</b> , 222, 413-420	2	94
613	An insight on hyaluronic acid in drug targeting and drug delivery. <i>Journal of Drug Targeting</i> , <b>2008</b> , 16, 91-107	5.4	92
612	Dispersion tailoring and soliton propagation in silicon waveguides. <i>Optics Letters</i> , <b>2006</b> , 31, 1295-7	3	91
611	Effect of gain nonlinearities on period doubling and chaos in directly modulated semiconductor lasers. <i>Applied Physics Letters</i> , <b>1986</b> , 49, 1013-1015	3.4	88
610	Vector theory of stimulated Raman scattering and its application to fiber-based Raman amplifiers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2003</b> , 20, 1616	1.7	87
609	. <i>IEEE Journal of Quantum Electronics</i> , <b>1990</b> , 26, 1901-1909	2	87
608	Induced-frequency shift of copropagating ultrafast optical pulses. <i>Applied Physics Letters</i> , <b>1988</b> , 52, 1939-1941	3.1	87
607	Unified description of ultrafast stimulated Raman scattering in optical fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1996</b> , 13, 2170	1.7	85
606	Broadly tunable femtosecond parametric oscillator using a photonic crystal fiber. <i>Optics Letters</i> , <b>2005</b> , 30, 1234-6	3	84
605	Spatiotemporal instabilities in dispersive nonlinear media. <i>Physical Review A</i> , <b>1992</b> , 46, 4202-4208	2.6	82

604	Spectral hole-burning and gain saturation in semiconductor lasers: Strong-signal theory. <i>Journal of Applied Physics</i> , <b>1988</b> , 63, 1232-1235	2.5	80
603	Analytic and numerical study of pulse broadening in nonlinear dispersive optical fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1986</b> , 3, 205	1.7	79
602	Mid-infrared supercontinuum generation using dispersion-engineered Ge(11.5)As(24)Se(64.5) chalcogenide channel waveguide. <i>Optics Express</i> , <b>2015</b> , 23, 6903-14	3.3	78
601	Theory of low-threshold optical switching in nonlinear phase-shifted periodic structures. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 671	1.7	78
600	Four-wave mixing and phase conjugation in semiconductor laser media. <i>Optics Letters</i> , <b>1987</b> , 12, 260-2	3	77
599	Kink solitons and optical shocks in dispersive nonlinear media. <i>Physical Review A</i> , <b>1992</b> , 46, 1573-1577	2.6	76
598	. <i>IEEE Photonics Technology Letters</i> , <b>1990</b> , 2, 875-877	2.2	73
597	Amplification and compression of weak picosecond optical pulses by using semiconductor-laser amplifiers. <i>Optics Letters</i> , <b>1989</b> , 14, 500-2	3	72
596	Reflection and transmission of electromagnetic waves at a temporal boundary. <i>Optics Letters</i> , <b>2014</b> , 39, 574-7	3	71
595	Interactions of chirped and chirp-free similaritons in optical fiber amplifiers. <i>Optics Express</i> , <b>2007</b> , 15, 2963-73	3.3	71
594	Impact of dispersion fluctuations on dual-pump fiber-optic parametric amplifiers. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 1292-1294	2.2	70
593	Optical solitons in a silicon waveguide. <i>Optics Express</i> , <b>2007</b> , 15, 7682-8	3.3	69
592	Changes in the spectrum, in the spectral degree of polarization, and in the spectral degree of coherence of a partially coherent beam propagating through a gradient-index fiber. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2006</b> , 23, 940-8	1.8	68
591	Theory of intermodal four-wave mixing with random linear mode coupling in few-mode fibers. <i>Optics Express</i> , <b>2014</b> , 22, 32039-59	3.3	65
590	Effect of intrapulse stimulated Raman scattering on soliton-effect pulse compression in optical fibers. <i>Optics Letters</i> , <b>1990</b> , 15, 224-6	3	64
589	Mode-partition noise in vertical-cavity surface-emitting lasers. <i>IEEE Photonics Technology Letters</i> , <b>1997</b> , 9, 437-439	2.2	63
588	Record performance of parametric amplifier constructed with highly nonlinear fibre. <i>Electronics Letters</i> , <b>2003</b> , 39, 838	1.1	62
587	Induced focusing and spatial wave breaking from cross-phase modulation in a self-defocusing medium. <i>Optics Letters</i> , <b>1992</b> , 17, 19-21	3	62

586	Two-Photon Double-Beam Optical Bistability. <i>Physical Review Letters</i> , <b>1980</b> , 44, 1058-1061	7.4	62
585	Effects of optical feedback on static and dynamic characteristics of vertical-cavity surface-emitting lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>1997</b> , 3, 353-358	3.8	60
584	Mode-partition noise and intensity correlation in a two-mode semiconductor laser. <i>Physical Review A</i> , <b>1988</b> , 37, 2488-2494	2.6	60
583	Effect of frequency chirping on the performance of optical communication systems. <i>Optics Letters</i> , <b>1986</b> , 11, 318	3	60
582	Delocalization and superalternation effects in the nonlinear susceptibilities of one-dimensional systems. <i>Chemical Physics Letters</i> , <b>1976</b> , 44, 366-370	2.5	60
581	A novel calcium silicate based microspheres of repaglinide: in vivo investigations. <i>Journal of Controlled Release</i> , <b>2006</b> , 113, 111-6	11.7	59
580	Silicon waveguides for creating quantum-correlated photon pairs. <i>Optics Letters</i> , <b>2006</b> , 31, 3140-2	3	59
579	Free-space wave propagation beyond the paraxial approximation. <i>Physical Review A</i> , <b>1983</b> , 27, 1693-1695.6		59
578	Channeling of intense electromagnetic beams. <i>Journal of Applied Physics</i> , <b>1981</b> , 52, 109-125	2.5	59
577	Lateral analysis of quasi-index-guided injection lasers: Transition from gain to index guiding. <i>Journal of Lightwave Technology</i> , <b>1984</b> , 2, 537-543	4	58
576	. <i>IEEE Journal of Quantum Electronics</i> , <b>1991</b> , 27, 1843-1849	2	57
575	Stimulated Raman scattering cascade spanning the wavelength range of 523 to 1750 nm using a graded-index multimode optical fiber. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 201107	3.4	56
574	Far-field diffraction of pulsed optical beams in dispersive media. <i>Optics Communications</i> , <b>1999</b> , 167, 15-22		56
573	Light Propagation in Gain Media: Optical Amplifiers <b>2011</b> ,		56
572	Nonlinear Silicon Photonics: Analytical Tools. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2010</b> , 16, 200-215	3.8	55
571	Vector theory of four-wave mixing: polarization effects in fiber-optic parametric amplifiers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2004</b> , 21, 1216	1.7	54
570	. <i>IEEE Photonics Technology Letters</i> , <b>1989</b> , 1, 212-214	2.2	54
569	Fibre gratings. <i>Physics World</i> , <b>1993</b> , 6, 41-48	0.5	53

568	What is the Temporal Analog of Reflection and Refraction of Optical Beams?. <i>Physical Review Letters</i> , <b>2015</b> , 115, 183901	7.4	51
567	Modulation bandwidth of high-power single-mode semiconductor lasers: Effect of intraband gain saturation. <i>Applied Physics Letters</i> , <b>1990</b> , 57, 1-3	3.4	51
566	Theoretical analysis of hot electron dynamics in nanorods. <i>Scientific Reports</i> , <b>2015</b> , 5, 12140	4.9	50
565	Optical switching in lambda/4-shifted nonlinear periodic structures. <i>Optics Letters</i> , <b>1994</b> , 19, 1789-91	3	50
564	Vectorial nonlinear propagation in silicon nanowire waveguides: polarization effects. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2010</b> , 27, 956	1.7	49
563	Chaotic dynamics of semiconductor lasers with phase-conjugate feedback. <i>Physical Review A</i> , <b>1994</b> , 49, 2096-2105	2.6	49
562	Effect of gain dispersion and stimulated Raman scattering on soliton amplification in fiber amplifiers. <i>Optics Letters</i> , <b>1991</b> , 16, 226-8	3	49
561	. <i>IEEE Journal of Quantum Electronics</i> , <b>1988</b> , 24, 134-142	2	49
560	Analytical study of optical bistability in silicon ring resonators. <i>Optics Letters</i> , <b>2010</b> , 35, 55-7	3	48
559	Dispersive waves emitted by solitons perturbed by third-order dispersion inside optical fibers. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	48
558	Spectral shift and distortion due to self-phase modulation of picosecond pulses in 1.5 $\mu\text{m}$ optical amplifiers. <i>Applied Physics Letters</i> , <b>1989</b> , 55, 13-15	3.4	48
557	Self-amplitude-modulation of optical pulses in nonlinear dispersive fibers. <i>Physical Review A</i> , <b>1987</b> , 36, 3862-3867	2.6	48
556	. <i>Journal of Lightwave Technology</i> , <b>1988</b> , 6, 620-625	4	48
555	Effects of higher-order dispersion on resonant dispersive waves emitted by solitons. <i>Optics Letters</i> , <b>2009</b> , 34, 2072-4	3	47
554	Semiconductor laser dynamics for feedback from a finite-penetration-depth phase-conjugate mirror. <i>IEEE Journal of Quantum Electronics</i> , <b>1997</b> , 33, 838-844	2	47
553	Semiconductor laser dynamics beyond the rate-equation approximation. <i>Optics Communications</i> , <b>1995</b> , 119, 246-255	2	47
552	Optical wave breaking and pulse compression due to cross-phase modulation in optical fibers. <i>Optics Letters</i> , <b>1989</b> , 14, 137-9	3	47
551	Effects of third-order dispersion on dispersion-managed solitons. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1999</b> , 16, 1332	1.7	46

550	. <i>IEEE Photonics Technology Letters</i> , <b>1992</b> , 4, 562-564	2.2	46
549	Transverse modulation instability of copropagating optical beams in nonlinear Kerr media. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1990</b> , 7, 1072	1.7	46
548	Distributed feedback lasers with multiple phase-shift regions. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 178-179	3.4	46
547	Reduction of Nonlinear Penalties Due to Linear Coupling in Multicore Optical Fibers. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 1574-1576	2.2	45
546	Optical switching using nonlinear polarization rotation inside silicon waveguides. <i>Optics Letters</i> , <b>2009</b> , 34, 476-8	3	45
545	Anisotropic nonlinear response of silicon in the near-infrared region. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 071113	3.4	45
544	Noise amplification in dispersive nonlinear media. <i>Physical Review A</i> , <b>1995</b> , 51, 4086-4092	2.6	45
543	Modulational instabilities in dispersion-flattened fibers. <i>Physical Review E</i> , <b>1995</b> , 52, 1072-1080	2.4	45
542	Beam-propagation analysis of stripe-geometry semiconductor lasers: Threshold behavior. <i>Applied Physics Letters</i> , <b>1983</b> , 43, 11-13	3.4	45
541	Effects of spatial hole burning on gain switching in vertical-cavity surface-emitting lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>1997</b> , 33, 462-468	2	44
540	Dynamics of parametric processes with a trilinear hamiltonian. <i>Journal of Physics A: Mathematical Nuclear and General</i> , <b>1974</b> , 7, 607-616		44
539	Purely phase-sampled fiber Bragg gratings for broad-band dispersion and dispersion slope compensation. <i>IEEE Photonics Technology Letters</i> , <b>2003</b> , 15, 1091-1093	2.2	43
538	Effect of phase-conjugate feedback on the noise characteristics of semiconductor lasers. <i>Physical Review A</i> , <b>1992</b> , 46, 5890-5898	2.6	43
537	Lateral-mode analysis of gain-guided and index-guided semiconductor-laser arrays. <i>Journal of Applied Physics</i> , <b>1985</b> , 58, 2922-2931	2.5	43
536	Effects of transverse-mode competition on the injection dynamics of vertical-cavity surface-emitting lasers. <i>Quantum and Semiclassical Optics: Journal of the European Optical Society Part B</i> , <b>1997</b> , 9, 737-747		42
535	Spectrum-induced changes in diffraction of pulsed optical beams. <i>Optics Communications</i> , <b>1998</b> , 157, 52-56	2	42
534	Effects of polarization-mode dispersion on fiber-based parametric amplification and wavelength conversion. <i>Optics Letters</i> , <b>2004</b> , 29, 1114-6	3	42
533	Self-focusing of chirped optical pulses in nonlinear dispersive media. <i>Physical Review A</i> , <b>1994</b> , 49, 4085-4092	2.2	42



532	Cross-phase modulation and induced focusing due to optical nonlinearities in optical fibers and bulk materials. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1989</b> , 6, 824	1.7	42
531	Effect of phase-conjugate feedback on semiconductor laser dynamics. <i>Optics Letters</i> , <b>1991</b> , 16, 1325-7	3	42
530	Assessment of VCSEL thermal rollover mechanisms from measurements and empirical modeling. <i>Optics Express</i> , <b>2011</b> , 19, 15490-505	3.3	41
529	Self-Phase Modulation in Semiconductor Optical Amplifiers: Impact of Amplified Spontaneous Emission. <i>IEEE Journal of Quantum Electronics</i> , <b>2010</b> , 46, 1396-1403	2	41
528	Instability due to cross-phase modulation in the normal-dispersion regime. <i>Physical Review E</i> , <b>1993</b> , 48, 2178-2186	2.4	41
527	Graded-index solitons in multimode fibers. <i>Optics Letters</i> , <b>2018</b> , 43, 3345-3348	3	40
526	Suppression of stimulated Brillouin scattering in optical fibers using fiber Bragg gratings. <i>Optics Express</i> , <b>2003</b> , 11, 3467-72	3.3	40
525	Effective mode area and its optimization in silicon-nanocrystal waveguides. <i>Optics Letters</i> , <b>2012</b> , 37, 2295-7		39
524	Spectral and temporal changes of optical pulses propagating through time-varying linear media. <i>Optics Letters</i> , <b>2011</b> , 36, 505-7	3	39
523	Transfer-matrix analysis of optical bistability in DFB semiconductor laser amplifiers with nonuniform gratings. <i>IEEE Journal of Quantum Electronics</i> , <b>1997</b> , 33, 2029-2037	2	39
522	Photon-pair generation by four-wave mixing in optical fibers. <i>Optics Letters</i> , <b>2006</b> , 31, 1286-8	3	39
521	Representation of vector electromagnetic beams. <i>Physical Review A</i> , <b>1980</b> , 22, 1159-1164	2.6	39
520	Exact dispersion relation for nonlinear plasmonic waveguides. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	38
519	Ultrafast optical switching based on nonlinear polarization rotation in silicon waveguides. <i>Optics Express</i> , <b>2010</b> , 18, 11514-23	3.3	38
518	Nonlinear switching of optical pulses in fiber Bragg gratings. <i>IEEE Journal of Quantum Electronics</i> , <b>2003</b> , 39, 508-515	2	38
517	Spatiotemporal instabilities in nonlinear bulk media with Bragg gratings. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2001</b> , 18, 45	1.7	38
516	Tuberculosis: from molecular pathogenesis to effective drug carrier design. <i>Drug Discovery Today</i> , <b>2012</b> , 17, 760-73	8.8	37
515	Effects of precompensation and postcompensation on timing jitter in dispersion-managed systems. <i>Optics Letters</i> , <b>2001</b> , 26, 1131-3	3	37

514	Specialty Fibers for Terahertz Generation and Transmission: A Review. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2016</b> , 22, 365-379	3.8	36
513	40-gb/s optical switching and wavelength multicasting in a two-pump parametric device. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 2376-2378	2.2	36
512	Vector soliton fission. <i>Physical Review Letters</i> , <b>2004</b> , 93, 183901	7.4	36
511	FDTD modeling of anisotropic nonlinear optical phenomena in silicon waveguides. <i>Optics Express</i> , <b>2010</b> , 18, 21427-48	3.3	35
510	Timing jitter of ultrashort solitons in high-speed communication systems I General formulation and application to dispersion-decreasing fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1997</b> , 14, 314	1.7	35
509	Spatio-temporal characteristics of filamentation in broad-area semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , <b>1997</b> , 33, 1174-1179	2	35
508	End correction in the quasi-fast Hankel transform for optical propagation problems. <i>Optics Letters</i> , <b>1981</b> , 6, 171-3	3	35
507	Soliton stability and trapping in multimode fibers. <i>Optics Letters</i> , <b>2015</b> , 40, 225-8	3	34
506	Nonlinear propagation in silicon-based plasmonic waveguides from the standpoint of applications. <i>Optics Express</i> , <b>2011</b> , 19, 206-17	3.3	34
505	Evaluation of porous carrier-based floating orlistat microspheres for gastric delivery. <i>AAPS PharmSciTech</i> , <b>2006</b> , 7, 90	3.9	34
504	Spectrum of partially coherent light: transition from near to far zone. <i>Optics Communications</i> , <b>1990</b> , 78, 1-6	2	34
503	Energy spectrum of a nonstationary ensemble of pulses. <i>Optics Letters</i> , <b>2004</b> , 29, 394-6	3	33
502	Highly nondegenerate four-wave mixing in semiconductor lasers due to spectral hole burning. <i>Applied Physics Letters</i> , <b>1987</b> , 51, 302-304	3.4	33
501	Noise propagation from pump to secondary lasers. <i>Optics Letters</i> , <b>1987</b> , 12, 806-8	3	33
500	Effect of injection-current fluctuations on the spectral linewidth of semiconductor lasers. <i>Physical Review A</i> , <b>1988</b> , 37, 2495-2501	2.6	33
499	Bistability and hysteresis in phase-conjugated reflectivity. <i>IEEE Journal of Quantum Electronics</i> , <b>1981</b> , 17, 374-380	2	33
498	Wolf effect in homogeneous and inhomogeneous media. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>1990</b> , 7, 2184	1.8	32
497	Dispersion engineered Ge <sub>1-x</sub> Se <sub>x</sub> nanowire for supercontinuum generation: a parametric study. <i>Optics Express</i> , <b>2014</b> , 22, 31029-40	3.3	31

496	Optical Square-Wave Clock Generation Based on an All-Optical Flip-Flop. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 489-491	2.2	31
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