

Paul Kinsler

List of Publications by Year in descending order

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104
papers

1,801
citations

279798

23
h-index

289244

40
g-index

106
all docs

106
docs citations

106
times ranked

1251
citing authors

#	ARTICLE	IF	CITATIONS
1	Motional Narrowing in Semiconductor Microcavities. <i>Physical Review Letters</i> , 1996, 77, 4792-4795.	7.8	148
2	A spacetime cloak, or a history editor. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 024003.	2.2	124
3	Nonlinear envelope equation modeling of sub-cycle dynamics and harmonic generation in nonlinear waveguides. <i>Optics Express</i> , 2007, 15, 5382.	3.4	119
4	Quantum dynamics of the parametric oscillator. <i>Physical Review A</i> , 1991, 43, 6194-6208.	2.5	106
5	Optical pulse propagation with minimal approximations. <i>Physical Review A</i> , 2010, 81, .	2.5	76
6	Causality-Based Criteria for a Negative Refractive Index Must Be Used With Care. <i>Physical Review Letters</i> , 2008, 101, 167401.	7.8	69
7	Roadmap on transformation optics. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 063001.	2.2	64
8	Few-cycle pulse propagation. <i>Physical Review A</i> , 2003, 67, .	2.5	61
9	Intersubband electron-electron scattering in asymmetric quantum wells designed for far-infrared emission. <i>Physical Review B</i> , 1998, 58, 4771-4778.	3.2	57
10	Quantum tunneling and thermal activation in the parametric oscillator. <i>Physical Review A</i> , 1989, 40, 4813-4816.	2.5	50
11	Limits to squeezing and phase information in the parametric amplifier. <i>Physical Review A</i> , 1993, 48, 3310-3320.	2.5	48
12	Pseudospectral spatial-domain: a new method for nonlinear pulse propagation in the few-cycle regime with arbitrary dispersion. <i>Journal of Modern Optics</i> , 2005, 52, 973-986.	1.3	43
13	Four Poynting theorems. <i>European Journal of Physics</i> , 2009, 30, 983-993.	0.6	43
14	Theory of directional pulse propagation. <i>Physical Review A</i> , 2005, 72, .	2.5	40
15	Unidirectional optical pulse propagation equation for materials with both electric and magnetic responses. <i>Physical Review A</i> , 2010, 81, .	2.5	38
16	Exciton polaritons in semiconductor quantum microcavities in a high magnetic field. <i>Physical Review B</i> , 1997, 55, 16395-16403.	3.2	32
17	Intersubband terahertz lasers using four-level asymmetric quantum wells. <i>Journal of Applied Physics</i> , 1999, 85, 23-28.	2.5	31
18	Limits of the unidirectional pulse propagation approximation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 2363.	2.1	30

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19	Behavior of high-order stimulated Raman scattering in a highly transient regime. <i>Physical Review A</i> , 2005, 72, .	2.5	28
20	Critical fluctuations in the quantum parametric oscillator. <i>Physical Review A</i> , 1995, 52, 783-790.	2.5	27
21	A spacetime cloak, or a history editor. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 029501-029501.	2.2	27
22	Carrier-wave steepened pulses and gradient-gated high-order harmonic generation. <i>Physical Review A</i> , 2008, 77, .	2.5	25
23	Cloaks, editors, and bubbles: applications of spacetime transformation theory. <i>Annalen Der Physik</i> , 2014, 526, 51-62.	2.4	25
24	Comment on "Reply to comment on "Perfect imaging without negative refraction". <i>New Journal of Physics</i> , 2011, 13, 028001.	2.9	22
25	Comment on "Langevin equation for the squeezing of light by means of a parametric oscillator". <i>Physical Review A</i> , 1991, 44, 7848-7850.	2.5	21
26	The futures of transformations and metamaterials. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2015, 15, 10-23.	2.0	21
27	Few-cycle soliton propagation. <i>Physical Review A</i> , 2004, 69, .	2.5	20
28	Criteria for negative refraction in active and passive media. <i>Microwave and Optical Technology Letters</i> , 2008, 50, 1804-1807.	1.4	20
29	Refractive index and wave vector in passive or active media. <i>Physical Review A</i> , 2009, 79, .	2.5	19
30	How to be causal: time, spacetime and spectra. <i>European Journal of Physics</i> , 2011, 32, 1687-1700.	0.6	19
31	Comment on "Quantum noise in the parametric oscillator: From squeezed states to coherent-state superpositions". <i>Physical Review Letters</i> , 1990, 64, 236-236.	7.8	17
32	Triple correlations in non-degenerate parametric oscillators. <i>Quantum and Semiclassical Optics: Journal of the European Optical Society Part B</i> , 1995, 7, 727-741.	0.9	16
33	Active drains and causality. <i>Physical Review A</i> , 2010, 82, .	2.5	16
34	Transformation devices: Event carpets in space and space-time. <i>Physical Review A</i> , 2014, 89, .	2.5	15
35	Ultrashort-pulse modulation in adiabatically prepared Raman media. <i>Optics Letters</i> , 2005, 30, 180.	3.3	14
36	On spacetime transformation optics: temporal and spatial dispersion. <i>New Journal of Physics</i> , 2016, 18, 123010.	2.9	14

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37	Optical carrier wave shocking: Detection and dispersion. Physical Review E, 2007, 75, 066603.	2.1	13
38	Harmonic extended supercontinuum generation and carrier envelope phase dependent spectral broadening in silica nanowires. Optics Express, 2008, 16, 10886.	3.4	13
39	Testing quantum mechanics using third-order correlations. Physical Review A, 1996, 53, 2000-2008.	2.5	12
40	Linewidth narrowing of polaritons. Physical Review B, 1996, 54, 4988-4995.	3.2	12
41	Solid-state terahertz sources using quantum-well intersubband transitions. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 645-652.	4.6	12
42	Quadrature squeezing in the nondegenerate parametric amplifier. Physical Review A, 1995, 51, 864-867.	2.5	11
43	Faraday's Law and Magnetic Induction: Cause and Effect, Experiment and Theory. Physics, 2020, 2, 148-161.	1.4	11
44	Vacuum rabi splitting in semiconductor microcavities with applied electric and magnetic fields. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1995, 17, 1781-1786.	0.4	10
45	Interface and confined phonons in stepped quantum wells. Physica B: Condensed Matter, 1999, 263-264, 507-509.	2.7	10
46	Nonequilibrium electron heating in inter-subband terahertz lasers. Journal of Applied Physics, 2002, 91, 904-910.	2.5	10
47	Comment on "Correct definition of the Poynting vector in electrically and magnetically polarizable medium reveals that negative refraction is impossible". Optics Express, 2009, 17, 15167.	3.4	10
48	Interface phonons in asymmetric quantum well structures. Superlattices and Microstructures, 1999, 25, 163-166.	3.1	9
49	Maxwell's fishpond. European Journal of Physics, 2012, 33, 1737-1750.	0.6	8
50	Evaporating Black-Holes, Wormholes, and Vacuum Polarisation: Must they Always Conserve Charge?. Foundations of Physics, 2019, 49, 330-350.	1.3	8
51	Temporal boundaries in electromagnetic materials. New Journal of Physics, 2021, 23, 083032.	2.9	8
52	Wideband pulse propagation: Single-field and multifield approaches to Raman interactions. Physical Review A, 2005, 72, .	2.5	7
53	Maxwell's ($\langle i \rangle D, H \langle /i \rangle$) excitation fields: lessons from permanent magnets. European Journal of Physics, 2019, 40, 025203.	0.6	7
54	Maximizing the population inversion by optimizing the depopulation rate in far-infrared quantum cascade lasers. Superlattices and Microstructures, 1999, 25, 373-376.	3.1	6

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55	The refractive index of reciprocal electromagnetic media. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 044017.	2.2	6
56	Uni-directional optical pulses, temporal propagation, and spatial and temporal dispersion. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 025502.	2.2	6
57	Customizing longitudinal electric field profiles using spatial dispersion in dielectric wire arrays. <i>Optics Express</i> , 2018, 26, 2478.	3.4	6
58	Electromagnetism, axions, and topology: A first-order operator approach to constitutive responses provides greater freedom. <i>Physical Review A</i> , 2020, 101, .	2.5	6
59	Hot-hole lasers in IIIâ€V semiconductors. <i>Journal of Applied Physics</i> , 2001, 90, 1692-1697.	2.5	5
60	Electromagnetic mode profile shaping in waveguides. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	5
61	Generalized transformation design: Metrics, speeds, and diffusion. <i>Wave Motion</i> , 2018, 77, 91-106.	2.0	5
62	A new introduction to spatial dispersion: Reimagining the basic concepts. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2021, 43, 100897.	2.0	5
63	Monte Carlo modelling of far-infrared intersubband lasers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 48-51.	2.7	4
64	What is negative refraction?. , 2009, , .		4
65	An optimized algorithm for ionized impurity scattering in Monte Carlo simulations. <i>Computer Physics Communications</i> , 2002, 143, 136-141.	7.5	3
66	Modelling of angular effects in nonlinear optical processes. <i>Optics Communications</i> , 2006, 257, 164-175.	2.1	3
67	A comparison of the factorization approach to temporal and spatial propagation in the case of some acoustic waves. <i>Journal of Physics Communications</i> , 2018, 2, 025011.	1.2	3
68	Temporary Singularities and Axions: An Analytic Solution that Challenges Charge Conservation. <i>Annalen Der Physik</i> , 2021, 533, 2000565.	2.4	3
69	All kinds of cloaks, all kinds of transformations. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
70	Subwavelength mode profile customization using functional materials. <i>Journal of Physics Communications</i> , 2017, 1, 025003.	1.2	2
71	Mode Profile Shaping in Wire Media: Towards An Experimental Verification. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1276.	2.5	2
72	Quantum well intersubband transitions as a source of terahertz radiation. , 0, , .		1

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73	A theoretical study of quantum well terahertz lasers. , 0, , .		1
74	Carrier dynamical issues for extending the operating wavelength of quantum cascade lasers. , 1999, 3828, 17.		1
75	A coordinate-free criterion for negative phase velocity propagation. , 2009, , .		1
76	Comment on "What is negative refraction?". Journal of Modern Optics, 2010, 57, 2103-2108.	1.3	1
77	Comment on: On the inapplicability of a negative "phase" velocity condition as a negative refraction condition for active materials. Microwave and Optical Technology Letters, 2010, 52, 247-247.	1.4	1
78	Measure for carrier shocking. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1889.	2.1	1
79	Electromagnetic mode profile shaping in waveguides. , 2016, , .		1
80	Dispersion in space-time transformation optics. , 2016, , .		1
81	<title>Tuning of the exciton-photon coupling in semiconductor quantum microcavities by external electric and magnetic fields</title>. , 1996, , .		0
82	Theory of few-cycle pulses in an optical parametric oscillator. , 0, , .		0
83	Hall effect and ionized impurity scattering in Si(1-x)Ge. Journal of Applied Physics, 2003, 94, 7159-7162.	2.5	0
84	True uni-directional pulse propagation using Fleck field variables. , 0, , .		0
85	Optical carrier wave shocking: a parameter space analysis of the interplay between instantaneous and delayed material response. , 0, , .		0
86	Optical Carrier Wave Shocking: A parameter space analysis of the interplay between instantaneous and delayed material response. , 0, , .		0
87	Transverse spatial structures and OPCPA. , 2006, , .		0
88	Phase retention in SPM super-broadened pulses. , 2006, , .		0
89	Proposal for absolute CEP measurement using 0-to-f self-referencing. , 2007, , .		0
90	From Supercontinuum Generation to Carrier Shocks: Extreme Nonlinear Propagation in Photonic Crystal Fiber. , 2007, , .		0

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91	Thinking outside the envelope: New perspectives for nonlinear fiber optics. , 2008, , .		0
92	Pulse propagation in materials with both electric and magnetic responses: Unlimited bandwidth and only one approximation. , 2009, , .		0
93	Dressed for success: A Poynting vector for each season. , 2009, , .		0
94	Negative refractive index in natural, non-magnetic media. , 2009, , .		0
95	Spacetime Cloaking. Optics and Photonics News, 2011, 22, 43.	0.5	0
96	Cloaking spaceâ€“time. Physics World, 2011, 24, 35-38.	0.0	0
97	The limits and extension of transformation optics. , 2016, , .		0
98	Space-time Cloaking. World Scientific Series in Nanoscience and Nanotechnology, 2017, , 173-203.	0.1	0
99	Impedance rescaling and scattering from transformation optics devices. Journal of Physics Communications, 2018, 2, 045011.	1.2	0
100	Towards quantum well hot hole lasers. Springer Proceedings in Physics, 2001, , 711-712.	0.2	0
101	Synchronously Pumped Optical Parametric Oscillators with Anomalous Wavelength Tuning Behaviour. Springer Series in Chemical Physics, 2003, , 140-142.	0.2	0
102	Phase and few-cycle pulses in nonlinear optics. , 2004, , .		0
103	Pseudospectral and FDTD methods applied to nonlinear pulse propagation in the few-cycle regime. , 2004, , .		0
104	A spacetime cloak, or a history editor. Journal of Optics (United Kingdom), 2011, 13, 029501-029501.	2.2	0