Paul Kinsler

List of Publications by Year
in descending order

104	1,801	23	40
papers	citations	h-index	g-index
		279798	289244

106	106	106	1251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new introduction to spatial dispersion: Reimagining the basic concepts. Photonics and Nanostructures - Fundamentals and Applications, 2021, 43, 100897.	2.0	5
2	Temporary Singularities and Axions: An Analytic Solution that Challenges Charge Conservation. Annalen Der Physik, 2021, 533, 2000565.	2.4	3
3	Temporal boundaries in electromagnetic materials. New Journal of Physics, 2021, 23, 083032.	2.9	8
4	Faradayâ€™s Law and Magnetic Induction: Cause and Effect, Experiment and Theory. Physics, 2020, 2, 148-161.	1.4	11
5	Electromagnetism, axions, and topology: A first-order operator approach to constitutive responses provides greater freedom. Physical Review A, 2020, 101, .	2.5	6
6	Evaporating Black-Holes, Wormholes, and Vacuum Polarisation: Must they Always Conserve Charge?. Foundations of Physics, 2019, 49, 330-350.	1.3	8
7	Maxwellâ€™s (<i>D, H</i>) excitation fields: lessons from permanent magnets. European Journal of Physics, 2019, 40, 025203.	0.6	7
8	Generalized transformation design: Metrics, speeds, and diffusion. Wave Motion, 2018, 77, 91-106.	2.0	5
9	Uni-directional optical pulses, temporal propagation, and spatial and temporal dispersion. Journal of Optics (United Kingdom), 2018, 20, 025502.	2.2	6
10	Impedance rescaling and scattering from transformation optics devices. Journal of Physics Communications, 2018, 2, 045011.	1.2	0
11	A comparison of the factorization approach to temporal and spatial propagation in the case of some acoustic waves. Journal of Physics Communications, 2018, 2, 025011.	1.2	3
12	Mode Profile Shaping in Wire Media: Towards An Experimental Verification. Applied Sciences (Switzerland), 2018, 8, 1276.	2.5	2
13	Roadmap on transformation optics. Journal of Optics (United Kingdom), 2018, 20, 063001.	2.2	64
14	Customizing longitudinal electric field profiles using spatial dispersion in dielectric wire arrays. Optics Express, 2018, 26, 2478.	3.4	6
15	Electromagnetic mode profile shaping in waveguides. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	5
16	Space-time Cloaking. World Scientific Series in Nanoscience and Nanotechnology, 2017, , 173-203.	0.1	0
17	Subwavelength mode profile customization using functional materials. Journal of Physics Communications, 2017, 1, 025003.	1.2	2
18	On spacetime transformation optics: temporal and spatial dispersion. New Journal of Physics, 2016, 18, 123010.	2.9	14

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19	Electromagnetic mode profile shaping in waveguides. , 2016, , .		1
20	The limits and extension of transformation optics. , 2016, , .		0
21	The refractive index of reciprocal electromagnetic media. Journal of Optics (United Kingdom), 2016, 18, 044017.	2.2	6
22	Dispersion in space-time transformation optics. , 2016, , .		1
23	The futures of transformations and metamaterials. Photonics and Nanostructures - Fundamentals and Applications, 2015, 15, 10-23.	2.0	21
24	Measure for carrier shocking. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1889.	2.1	1
25	Cloaks, editors, and bubbles: applications of spacetime transformation theory. Annalen Der Physik, 2014, 526, 51-62.	2.4	25
26	Transformation devices: Event carpets in space and space-time. Physical Review A, 2014, 89, .	2.5	15
27	Maxwell's fishpond. European Journal of Physics, 2012, 33, 1737-1750.	0.6	8
28	A spacetime cloak, or a history editor. Journal of Optics (United Kingdom), 2011, 13, 024003.	2.2	124
29	Spacetime Cloaking. Optics and Photonics News, 2011, 22, 43.	0.5	0
30	Cloaking spaceâ€"time. Physics World, 2011, 24, 35-38.	0.0	0
31	How to be causal: time, spacetime and spectra. European Journal of Physics, 2011, 32, 1687-1700.	0.6	19
32	All kinds of cloaks, all kinds of transformations. Proceedings of SPIE, 2011, , .	0.8	2
33	Comment on â€˜Reply to comment on â€œPerfect imaging without negative refractionâ€â€™. New Journal of Physics, 2011, 13, 028001.	2.9	22
34	A spacetime cloak, or a history editor. Journal of Optics (United Kingdom), 2011, 13, 029501-029501.	2.2	27
35	A spacetime cloak, or a history editor. Journal of Optics (United Kingdom), 2011, 13, 029501-029501.	2.2	0
36	Optical pulse propagation with minimal approximations. Physical Review A, 2010, 81, .	2.5	76

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37	Comment on â€˜What is negative refraction?â€™. Journal of Modern Optics, 2010, 57, 2103-2108.	1.3	1
38	Active drains and causality. Physical Review A, 2010, 82, .	2.5	16
39	Comment on: On the inapplicability of a negativeâ€phaseâ€velocity condition as a negative refraction condition for active materials. Microwave and Optical Technology Letters, 2010, 52, 247-247.	1.4	1
40	Unidirectional optical pulse propagation equation for materials with both electric and magnetic responses. Physical Review A, 2010, 81, .	2.5	38
41	A coordinate-free criterion for negative phase velocity propagation. , 2009, , .		1
42	Pulse propagation in materials with both electric and magnetic responses: Unlimited bandwidth and only one approximation. , 2009, , .		0
43	Refractive index and wave vector in passive or active media. Physical Review A, 2009, 79, .	2.5	19
44	Comment on â€œCorrect definition of the Poynting vector in electrically and magnetically polarizable medium reveals that negative refraction is impossibleâ€ Optics Express, 2009, 17, 15167.	3.4	10
45	Four Poynting theorems. European Journal of Physics, 2009, 30, 983-993.	0.6	43
46	Dressed for success: A Poynting vector for each season. , 2009, , .		0
47	Negative refractive index in natural, non-magnetic media. , 2009, , .		0
48	What is negative refraction?. , 2009, , .		4
49	Criteria for negative refraction in active and passive media. Microwave and Optical Technology Letters, 2008, 50, 1804-1807.	1.4	20
50	Causality-Based Criteria for a Negative Refractive Index Must Be Used With Care. Physical Review Letters, 2008, 101, 167401.	7.8	69
51	Carrier-wave steepened pulses and gradient-gated high-order harmonic generation. Physical Review A, 2008, 77, .	2.5	25
52	Harmonic extended supercontinuum generation and carrier envelope phase dependent spectral broadening in silica nanowires. Optics Express, 2008, 16, 10886.	3.4	13
53	Thinking outside the envelope: New perspectives for nonlinear fiber optics. , 2008, , .		0
54	Proposal for absolute CEP measurement using 0-to-f self-referencing. , 2007, , .		0

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55	Optical carrier wave shocking: Detection and dispersion. Physical Review E, 2007, 75, 066603.	2.1	13
56	From Supercontinuum Generation to Carrier Shocks: Extreme Nonlinear Propagation in Photonic Crystal Fiber. , 2007, , .		0
57	Limits of the unidirectional pulse propagation approximation. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2363.	2.1	30
58	Nonlinear envelope equation modeling of sub-cycle dynamics and harmonic generation in nonlinear waveguides. Optics Express, 2007, 15, 5382.	3.4	119
59	Modelling of angular effects in nonlinear optical processes. Optics Communications, 2006, 257, 164-175.	2.1	3
60	Transverse spatial structures and OPCPA. , 2006, , .		0
61	Phase retention in SPM super-broadened pulses. , 2006, , .		0
62	Behavior of high-order stimulated Raman scattering in a highly transient regime. Physical Review A, 2005, 72, .	2.5	28
63	Theory of directional pulse propagation. Physical Review A, 2005, 72, .	2.5	40
64	Ultrashort-pulse modulation in adiabatically prepared Raman media. Optics Letters, 2005, 30, 180.	3.3	14
65	Wideband pulse propagation: Single-field and multifield approaches to Raman interactions. Physical Review A, 2005, 72, .	2.5	7
66	Pseudospectral spatial-domain: a new method for nonlinear pulse propagation in the few-cycle regime with arbitrary dispersion. Journal of Modern Optics, 2005, 52, 973-986.	1.3	43
67	Few-cycle soliton propagation. Physical Review A, 2004, 69, .	2.5	20
68	Phase and few-cycle pulses in nonlinear optics. , 2004, , .		0
69	Pseudospectral and FDTD methods applied to nonlinear pulse propagation in the few-cycle regime. , 2004, , .		0
70	Few-cycle pulse propagation. Physical Review A, 2003, 67, .	2.5	61
71	Hall effect and ionized impurity scattering in Si(1â˜x)Gex. Journal of Applied Physics, 2003, 94, 7159-7162.	2.5	0
72	Synchronously Pumped Optical Parametric Oscillators with Anomalous Wavelength Tuning Behaviour. Springer Series in Chemical Physics, 2003, , 140-142.	0.2	0

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73	Nonequilibrium electron heating in inter-subband terahertz lasers. Journal of Applied Physics, 2002, 91, 904-910.	2.5	10
74	An optimized algorithm for ionized impurity scattering in Monte Carlo simulations. Computer Physics Communications, 2002, 143, 136-141.	7.5	3
75	Hot-hole lasers in IIIâ€“V semiconductors. Journal of Applied Physics, 2001, 90, 1692-1697.	2.5	5
76	Towards quantum well hot hole lasers. Springer Proceedings in Physics, 2001, , 711-712.	0.2	0
77	Monte Carlo modelling of far-infrared intersubband lasers. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 48-51.	2.7	4
78	Solid-state terahertz sources using quantum-well intersubband transitions. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 645-652.	4.6	12
79	Interface and confined phonons in stepped quantum wells. Physica B: Condensed Matter, 1999, 263-264, 507-509.	2.7	10
80	Interface phonons in asymmetric quantum well structures. Superlattices and Microstructures, 1999, 25, 163-166.	3.1	9
81	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
82	Intersubband terahertz lasers using four-level asymmetric quantum wells. Journal of Applied Physics, 1999, 85, 23-28.	2.5	31
83	Carrier dynamical issues for extending the operating wavelength of quantum cascade lasers. , 1999, 3828, 17.		1
84	Intersubband electron-electron scattering in asymmetric quantum wells designed for far-infrared emission. Physical Review B, 1998, 58, 4771-4778.	3.2	57
85	Exciton polaritons in semiconductor quantum microcavities in a high magnetic field. Physical Review B, 1997, 55, 16395-16403.	3.2	32
86	Motional Narrowing in Semiconductor Microcavities. Physical Review Letters, 1996, 77, 4792-4795.	7.8	148
87	<title>Tuning of the exciton-photon coupling in semiconductor quantum microcavities by external electric and magnetic fields</title>. , 1996, , .		0
88	Testing quantum mechanics using third-order correlations. Physical Review A, 1996, 53, 2000-2008.	2.5	12
89	Linewidth narrowing of polaritons. Physical Review B, 1996, 54, 4988-4995.	3.2	12
90	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

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91	Quadrature squeezing in the nondegenerate parametric amplifier. Physical Review A, 1995, 51, 864-867.	2.5	11
92	Critical fluctuations in the quantum parametric oscillator. Physical Review A, 1995, 52, 783-790.	2.5	27
93	Triple correlations in non-degenerate parametric oscillators. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1995, 7, 727-741.	0.9	16
94	Limits to squeezing and phase information in the parametric amplifier. Physical Review A, 1993, 48, 3310-3320.	2.5	48
95	Quantum dynamics of the parametric oscillator. Physical Review A, 1991, 43, 6194-6208.	2.5	106
96	Comment on â€˜â€˜Langevin equation for the squeezing of light by means of a parametric oscillatorâ€™â€™. Physical Review A, 1991, 44, 7848-7850.	2.5	21
97	Comment on â€˜â€˜Quantum noise in the parametric oscillator: From squeezed states to coherent-state superpositionsâ€™â€™. Physical Review Letters, 1990, 64, 236-236.	7.8	17
98	Quantum tunneling and thermal activation in the parametric oscillator. Physical Review A, 1989, 40, 4813-4816.	2.5	50
99	Quantum well intersubband transitions as a source of terahertz radiation. , 0, , .		1
100	A theoretical study of quantum well terahertz lasers. , 0, , .		1
101	Theory of few-cycle pulses in an optical parametric oscillator. , 0, , .		0
102	True uni-directional pulse propagation using Fleck field variables. , 0, , .		0
103	Optical carrier wave shocking: a parameter space analysis of the interplay between instantaneous and delayed material response. , 0, , .		0
104	Optical Carrier Wave Shocking: A parameter space analysis of the interplay between instantaneous and delayed material response. , 0, , .		0