

Kihong Kim

List of Publications by Year in descending order

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135
papers

1,474
citations

394421

19
h-index

361022

35
g-index

135
all docs

135
docs citations

135
times ranked

1304
citing authors

#	ARTICLE	IF	CITATIONS
1	High-quality, large-area monolayer graphene for efficient bulk laser mode-locking near 125â€‰ μ m. Optics Letters, 2011, 36, 4089.	3.3	128
2	Linear instability and the codimension-2 region in binary fluid convection between rigid impermeable boundaries. Physical Review A, 1988, 37, 3909-3920.	2.5	103
3	Fabrication and characterization of ultrafast carbon nanotube saturable absorbers for solid-state laser mode locking near 1 μ m. Applied Physics Letters, 2008, 93, .	3.3	97
4	Graphene-filled hollow optical fiber saturable absorber for efficient soliton fiber laser mode-locking. Optics Express, 2012, 20, 5652.	3.4	87
5	Universal subgap optical conductivity in quasi-one-dimensional Peierls systems. Physical Review Letters, 1993, 71, 4015-4018.	7.8	68
6	Enhanced nonlinear optical effects due to the excitation of optical Tamm plasmon polaritons in one-dimensional photonic crystal structures. Optics Express, 2013, 21, 28817.	3.4	63
7	Compressional MHD waves in the magnetosphere: A new approach. Journal of Geophysical Research, 1999, 104, 12379-12385.	3.3	57
8	Single-walled carbon nanotube saturable absorber assisted high-power mode-locking of a Ti:sapphire laser. Optics Express, 2011, 19, 7833.	3.4	54
9	Reflection coefficient and localization length of waves in one-dimensional random media. Physical Review B, 1998, 58, 6153-6160.	3.2	40
10	Dimensionality expansion for the dirty-boson problem. Physical Review B, 1989, 40, 813-816.	3.2	36
11	Propagation of electromagnetic waves in stratified media with nonlinearity in both dielectric and magnetic responses. Optics Express, 2008, 16, 1150.	3.4	33
12	Hyperuniversality in quantum critical phenomena. Physical Review B, 1991, 43, 13583-13586.	3.2	32
13	Antireflection film in one-dimensional metallo-dielectric photonic crystals. Optics Communications, 2004, 230, 239-243.	2.1	32
14	Resonant absorption and mode conversion in a transition layer between positive-index and negative-index media. Optics Express, 2008, 16, 18505.	3.4	30
15	Invariant imbedding theory of mode conversion in inhomogeneous plasmas. II. Mode conversion in cold, magnetized plasmas with perpendicular inhomogeneity. Physics of Plasmas, 2006, 13, 042103.	1.9	29
16	Defect modes in a one-dimensional photonic crystal with a chiral defect layer. Optical Materials Express, 2014, 4, 2542.	3.0	29
17	Invariant imbedding theory of mode conversion in inhomogeneous plasmas. I. Exact calculation of the mode conversion coefficient in cold, unmagnetized plasmas. Physics of Plasmas, 2005, 12, 062101.	1.9	26
18	Influence of laser lift-off on optical and structural properties of InGaN/GaN vertical blue light emitting diodes. AIP Advances, 2012, 2, .	1.3	24

#	ARTICLE	IF	CITATIONS
19	Overview of journal metrics. Science Editing, 2018, 5, 16-20.	0.8	21
20	Compressional MHD wave transport in the magnetosphere 1. Reflection and transmission across the plasmopause. Journal of Geophysical Research, 2002, 107, SMP 16-1.	3.3	19
21	Particle size-dependent giant nonlinear absorption in nanostructured Ni-Ti alloys. Optics Express, 2008, 16, 11193.	3.4	19
22	Improved transmittance in one-dimensional metallic photonic crystals. Physica B: Condensed Matter, 2003, 338, 132-135.	2.7	15
23	Resonant enhancement of mode conversion in unmagnetized plasmas due to a periodic density modulation superimposed on a linear electron density profile. Physics of Plasmas, 2010, 17, .	1.9	15
24	Enhanced ultrafast optical nonlinearity of porous anodized aluminum oxide nanostructures. Optics Express, 2009, 17, 19093.	3.4	14
25	Invariant imbedding theory of wave propagation in arbitrarily inhomogeneous stratified bi-isotropic media. Journal of Optics (United Kingdom), 2016, 18, 065605.	2.2	14
26	Tuning of anisotropic optical properties of two-dimensional dielectric photonic crystals. Physica B: Condensed Matter, 2003, 338, 153-158.	2.7	13
27	Strong influence of nonlinearity and surface plasmon excitations on the lateral shift. Optics Express, 2008, 16, 15506.	3.4	13
28	Effects of a random spatial variation of the plasma density on the mode conversion in cold, unmagnetized, and stratified plasmas. Physics of Plasmas, 2013, 20, 122104.	1.9	13
29	Anderson localization of two-dimensional massless pseudospin-1 Dirac particles in a correlated random one-dimensional scalar potential. Physical Review B, 2019, 100, .	3.2	13
30	Tunable resonant transmission of electromagnetic waves through a magnetized plasma. Physical Review E, 2003, 67, 036612.	2.1	12
31	Disorder-enhanced transmission of a quantum mechanical particle through a disordered tunneling barrier in one dimension: Exact calculation based on the invariant imbedding method. Physical Review B, 2008, 77, .	3.2	12
32	Universal shift of the Brewster angle and disorder-enhanced delocalization of p waves in stratified random media. Optics Express, 2011, 19, 20817.	3.4	11
33	Resonant absorption and amplification of circularly-polarized waves in inhomogeneous chiral media. Optics Express, 2016, 24, 1794.	3.4	11
34	Optical resonant transmission in metal-dielectric multilayers. Journal of Optics, 2004, 6, 22-25.	1.5	10
35	Anomalously suppressed localization in the two-channel Anderson model. Journal of Physics Condensed Matter, 2012, 24, 135303.	1.8	10
36	Temperature dependence of mode conversion in warm, unmagnetized plasmas with a linear density profile. Physics of Plasmas, 2013, 20, .	1.9	10

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37	Super-Klein tunneling of Klein-Gordon particles. Results in Physics, 2019, 12, 1391-1394.	4.1	10
38	Anderson localization and delocalization of massless two-dimensional Dirac electrons in random one-dimensional scalar and vector potentials. Physical Review B, 2019, 99, .	3.2	10
39	Conversion of ordinary and extraordinary waves into upper hybrid waves in inhomogeneous plasmas. Physics of Plasmas, 2005, 12, 052903.	1.9	9
40	Excitation of s-polarized surface electromagnetic waves in inhomogeneous dielectric media. Optics Express, 2008, 16, 13354.	3.4	9
41	Influence of weak nonlinearity on the 1D Anderson model with long-range correlated disorder. European Physical Journal B, 2011, 84, 79-82.	1.5	9
42	Anderson localization of electromagnetic waves in randomly-stratified magnetodielectric media with uniform impedance. Optics Express, 2015, 23, 14520.	3.4	9
43	Transport and localization of waves in ladder-shaped lattices with locally $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mi mathvariant="script"} \rangle \text{PT} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -symmetric potentials. Physical Review A, 2016, 94, .	2.5	9
44	Propagation of sudden impulses in the magnetosphere: Linear waves. Advances in Space Research, 2000, 25, 1531-1539.	2.6	8
45	Interaction effects in non-Hermitian models of vortex physics. Physical Review B, 2001, 64, .	3.2	8
46	Computational design of one-dimensional nonlinear photonic crystals with material dispersion for efficient second-harmonic generation. Optics Express, 2009, 17, 19075.	3.4	8
47	Evaluation of the third-order optical nonlinearity of Au:SiO ₂ nanocomposites in the off-resonant spectral region. Optics Communications, 2013, 286, 347-352.	2.1	8
48	Superfluid density in inhomogeneous He ₄ with applications to thin films. Physical Review B, 1993, 48, 13735-13741.	3.2	7
49	Influence of bottom topography on the propagation of linear shallow water waves: an exact approach based on the invariant imbedding method. Waves in Random and Complex Media, 2008, 18, 325-341.	2.7	7
50	Giant enhancement of reflectance due to the interplay between surface confined wave modes and nonlinear gain in dielectric media. Optics Express, 2017, 25, 31816.	3.4	7
51	Enhanced localization of waves in one-dimensional random media due to nonlinearity: Fixed input case. Physica B: Condensed Matter, 2011, 406, 4535-4537.	2.7	6
52	Large enhancement of nonlinear Goos-Hänchen shifts and optical bistability due to surface plasmon excitations. Journal of the Korean Physical Society, 2015, 67, 2092-2095.	0.7	6
53	Exact localization length for s-polarized electromagnetic waves incident at the critical angle on a randomly-stratified dielectric medium. Optics Express, 2017, 25, 28752.	3.4	6
54	Anomalous localization enhancement in one-dimensional non-Hermitian disordered lattices. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 045003.	2.1	6

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55	Increasing number of authors per paper in Korean science and technology papers. <i>Science Editing</i> , 2016, 3, 80-89.	0.8	6
56	Propagation of p-polarized electromagnetic waves obliquely incident on stratified random media: Random phase approximation. <i>Waves in Random and Complex Media</i> , 2007, 17, 43-53.	2.7	5
57	Enhanced optical phase conjugation in nonlinear metamaterials. <i>Optics Express</i> , 2014, 22, A1744.	3.4	5
58	Broadband wide-angle absorption enhancement due to mode conversion in cold unmagnetized plasmas with periodic density variations. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	5
59	Bibliographic and content analysis of physics papers from North Korea indexed in the Scopus from 2005 to 2018. <i>Science Editing</i> , 2019, 6, 35-40.	0.8	5
60	New microarchitectures of (Er,Yb):Lu ₂ O ₃ nanocrystals embedded in PMMA: synthesis, structural characterization, and luminescent properties. <i>Nanoscale Research Letters</i> , 2013, 8, 385.	5.7	4
61	Numerical study of the transverse localization of waves in one-dimensional lattices with randomly distributed gain and loss: effect of disorder correlations. <i>Waves in Random and Complex Media</i> , 2022, 32, 390-405.	2.7	4
62	Artificial intelligence and publishing. <i>Science Editing</i> , 2019, 6, 89-90.	0.8	4
63	Metaverse in journal publishing. <i>Science Editing</i> , 2022, 9, 1-2.	0.8	4
64	Spin-wave singularities: Free energy and equation of state in O(n) spin models near T _c . <i>Physical Review B</i> , 1990, 42, 10505-10522.	3.2	3
65	Quantum critical phenomena of long-range interacting bosons in a time-dependent random potential. <i>Physical Review B</i> , 1999, 60, R742-R745.	3.2	3
66	Theory of one-dimensional solitons, polarons, and multipolarons: An alternative formulation. <i>Physical Review B</i> , 2000, 61, 10768-10776.	3.2	3
67	Nonlinear MHD wave propagation in the magnetosphere: A time-dependent approach. <i>Journal of Geophysical Research</i> , 2000, 105, 23345-23352.	3.3	3
68	1.34 μ m Nd:YVO ₄ laser mode-locked by a single-walled carbon nanotube saturable absorber. <i>Proceedings of SPIE</i> , 2012, , .	0.8	3
69	Excitation of surface waves on the interfaces of general bi-isotropic media. <i>Optics Express</i> , 2016, 24, 15882.	3.4	3
70	Transient super-ballistic spreading of wave packets with large spreading exponents in some hybrid ordered-quasiperiodic lattices. <i>Journal of the Korean Physical Society</i> , 2016, 68, 387-392.	0.7	3
71	Resonant absorption of electromagnetic waves in transition anisotropic media. <i>Optics Express</i> , 2017, 25, 30162.	3.4	3
72	Exact Calculation of the Optical Properties of One-Dimensional Nonlinear Photonic Crystals. <i>Journal of the Korean Physical Society</i> , 2008, 52, 1580-1584.	0.7	3

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73	Mode conversion and resonant absorption in inhomogeneous materials with flat bands. <i>Physical Review B</i> , 2022, 105, .	3.2	3
74	Optical conductivity associated with solitons in the Peierls state as modified by zero-point-motion disorder. <i>Synthetic Metals</i> , 1996, 83, 13-19.	3.9	2
75	Surface Plasmon Excitation in Fibonacci Metal-Dielectric Multilayers. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009, 6, 2054-2059.	0.4	2
76	Increasing the orbital angular momentum of a fractal beam. , 2010, , .		2
77	Transmission resonance induced by a $\hat{\nu}$ -like defect in the Fano-Anderson model with two Fano defects. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1765-1770.	1.5	2
78	Propagation of optical vortex beams and nucleation of vortex-antivortex pairs in disordered nonlinear photonic lattices. <i>Journal of the Korean Physical Society</i> , 2014, 65, 2040-2044.	0.7	2
79	Transmission, reflection and localization of waves in one-dimensional amplifying media with nonlinear gain. <i>Journal of the Korean Physical Society</i> , 2014, 64, 1665-1670.	0.7	2
80	Anderson localization and saturable nonlinearity in one-dimensional disordered lattices. <i>Journal of Modern Optics</i> , 2017, 64, 1923-1929.	1.3	2
81	Anderson localization and Brewster anomaly of electromagnetic waves in randomly-stratified anisotropic media. <i>Materials Research Express</i> , 2019, 6, 085803.	1.6	2
82	Omnidirectional excitation of surface waves and super-Klein tunneling at the interface between two different bi-isotropic media. <i>Physical Review B</i> , 2020, 101, .	3.2	2
83	Invariant Imbedding Approach for Electromagnetic Scattering from Cylindrical Bodies with Metamaterial Coatings. <i>Journal of the Korean Physical Society</i> , 2011, 59, 39-46.	0.7	2
84	Plan S. <i>Science Editing</i> , 2020, 7, 78-79.	0.8	2
85	COVID-19 and publishing. <i>Science Editing</i> , 2020, 7, 109-110.	0.8	2
86	Open access publishing in the internet age. <i>Science Editing</i> , 2016, 3, 1-2.	0.8	2
87	Open data policy of Science Editing. <i>Science Editing</i> , 2018, 5, 91-91.	0.8	2
88	Control of localization and optical properties with deep-subwavelength engineered disorder. <i>Optics Express</i> , 2022, 30, 28301.	3.4	2
89	Characteristics of resonant modes of photonic crystal cavities. , 2004, , .		1
90	Phase of the transmission coefficient of waves in one-dimensional random media. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1028-1031.	0.7	1

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91	Invariant imbedding theory for the scattering and absorption of electromagnetic waves by spherical bodies. Journal of the Korean Physical Society, 2014, 64, 1120-1127.	0.7	1
92	Direct calculation of the strong Goos-Hänchen effect of a Gaussian light beam due to the excitation of surface plasmon polaritons in the Otto configuration. Journal of Optics (United Kingdom), 2019, 21, 035006.	2.2	1
93	Mode conversion of extraordinary waves in stratified plasmas with an external magnetic field perpendicular to the directions of inhomogeneity and wave propagation. Journal of the Korean Physical Society, 2021, 79, 717.	0.7	1
94	Invariant Imbedding Theory of Wave Propagation in Stratified Complex Media. Journal of the Korean Physical Society, 2008, 52, 1598-1604.	0.7	1
95	í•™í•š€ë¥¼ í%ë°€í•š” ë–í•œ ì\$€í•œ, ê, íš•ìš•ê³¼ ë–ìœì Gwahak Pyeonjip, 2012, 1, 34-39.	0.1	1
96	Editing and publishing scholarly journals in the internet age. Science Editing, 2014, 1, 2-3.	0.8	1
97	Science editing and publishing in Asia. Science Editing, 2014, 1, 51-51.	0.8	1
98	2014 CrossRef annual meeting and workshops. Science Editing, 2015, 2, 41-43.	0.8	1
99	Some thoughts on authorship. Science Editing, 2015, 2, 53-54.	0.8	1
100	Patterns of citation when Korean scientists cite other Korean scientists. Science Editing, 2016, 3, 90-93.	0.8	1
101	Can we improve the peer review system?. Science Editing, 2017, 4, 1-2.	0.8	1
102	Rapid growth of international collaboration from articles indexed in Scopus database by researchers in Korea from 2006 to 2015. Science Editing, 2017, 4, 18-23.	0.8	1
103	Science Editing is now indexed in the Emerging Sources Citation Index. Science Editing, 2017, 4, 55-55.	0.8	1
104	Science Editing is indexed in the Scopus. Science Editing, 2018, 5, 1-1.	0.8	1
105	Implementing the Principles of Transparency and Best Practice in Scholarly Publishing. Science Editing, 2019, 6, 1-2.	0.8	1
106	Superfluid density in inhomogeneous ^4He . Physica B: Condensed Matter, 1994, 194-196, 527-528.	2.7	0
107	Excitation of surface plasmons in one-dimensional metal-dielectric photonic crystals. , 2007, , .		0
108	Influence of the optical nonlinearity on surface plasmon excitations in thin metal films. , 2007, , .		0

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109	Surface plasma waves can resonantly enhance the mode conversion efficiency in cold, unmagnetized plasmas. , 2007, , .		0
110	Resonant transmission of evanescent electromagnetic waves through Fibonacci dielectric multilayers. , 2007, , .		0
111	Fabrication and characterization of single-walled carbon nanotube saturable absorbers for solid-state laser mode-locking near 1 μm. , 2008, , .		0
112	Trace map method for calculating the optical properties of quasiperiodic multilayer structures. , 2009, , .		0
113	Fluctuation effects on the optical conductivity of quasi-one-dimensional Peierls Systems. Current Applied Physics, 2009, 9, S128-S130.	2.4	0
114	Localization of electromagnetic waves in one-dimensional nonlinear random media. , 2009, , .		0
115	Interplay between mode conversion and surface wave excitation phenomena in a transition layer between positive and negative index media. , 2009, , .		0
116	Second harmonic generation in one-dimensional photonic crystals with material dispersion. , 2009, , .		0
117	Enhanced optical nonlinearity due to surface plasmon excitations in thin metal films. , 2009, , .		0
118	Mode conversion in a randomly-stratified unmagnetized plasma. , 2011, , .		0
119	Propagation of light in stratified media with optical Kerr nonlinearity under external electric fields. Journal of Optics (United Kingdom), 2011, 13, 105103.	2.2	0
120	Nonreciprocal frequency doubling of electromagnetic waves through double resonance and Bragg reflection in photonic crystals. Current Applied Physics, 2012, 12, 214-218.	2.4	0
121	Nucleation of optical vortex pairs in disordered nonlinear 2D photonic lattices. , 2013, , .		0
122	Enhanced Nonlinear Optical Effects due to the Excitation of Optical Tamm Plasmon Polaritons in a One-Dimensional Metal-Photonic Crystal Structure. , 2013, , .		0
123	Wave-packet dynamics in one-dimensional nonlinear SchrÅ¶dinger lattices: Local vs. Nonlocal nonlinear effects. Journal of the Korean Physical Society, 2014, 64, 355-361.	0.7	0
124	Resonant absorption and amplification of EM waves in stratified chiral media. , 2015, , .		0
125	Mode conversion and resonant absorption of electromagnetic waves in inhomogeneous chiral media. , 2015, , .		0
126	Invariant imbedding theory of wave propagation in stratified anisotropic media. , 2016, , .		0

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127	2021 Council of Science Editors annual meeting. Science Editing, 2021, 8, 177-179.	0.8	0
128	Academic research during and after the COVID-19 pandemic. Science Editing, 2021, 8, 131-133.	0.8	0
129	Ultra-Broadband (> 500 nm) Single-Walled Carbon Nanotube Saturable Absorber Mode-Locking of Bulk Solid-State Lasers. , 2010, , .		0
130	The Effects of Bandpass Filtering on the Dissipative Soliton Generation in a Passively Mode-locked Fiber Laser. Journal of the Korean Physical Society, 2011, 59, 257-261.	0.7	0
131	Large enhancement of nonlinear Goos-Hänchen shifts and optical bistability due to surface plasmon excitations. , 2015, , .		0
132	Academic journals and cultural diversity. Science Editing, 2015, 2, 1-2.	0.8	0
133	Key references. Science Editing, 2016, 3, 65-66.	0.8	0
134	Open Access and the Future of Scholarly Communication: Policy and Infrastructure Open Access and the Future of Scholarly Communication: Implementation. Science Editing, 2017, 4, 46-47.	0.8	0
135	Plans towards open access. Science Editing, 2020, 7, 4-5.	0.8	0