

Kwang-Hyon Kim

List of Publications by Year in descending order

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papers

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686830

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docs citations

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times ranked

479
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#	ARTICLE	IF	CITATIONS
1	Linear and nonlinear optical characteristics of composites containing metal nanoparticles with different sizes and shapes. <i>Optics Express</i> , 2010, 18, 7488.	1.7	76
2	Anapole Resonances Facilitated by High-Index Contrast between Substrate and Dielectric Nanodisk Enhance Vacuum Ultraviolet Generation. <i>ACS Photonics</i> , 2018, 5, 4769-4775.	3.2	48
3	Theory of passive mode locking of solid-state lasers using metal nanocomposites as slow saturable absorbers. <i>Optics Letters</i> , 2012, 37, 1490.	1.7	44
4	High-Q Chiroptical Resonances by Quasi-Bound States in the Continuum in Dielectric Metasurfaces with Simultaneously Broken In-Plane Inversion and Mirror Symmetries. <i>Advanced Optical Materials</i> , 2021, 9, 2101162.	3.6	37
5	Saturable absorption in composites doped with metal nanoparticles. <i>Optics Express</i> , 2010, 18, 21918.	1.7	33
6	Multiband Photonic Topological Valley-Hall Edge Modes and Second-Order Corner States in Square Lattices. <i>Advanced Optical Materials</i> , 2021, 9, 2001865.	3.6	29
7	Theory of passive mode-locking of semiconductor disk lasers in the blue spectral range by metal nanocomposites. <i>Optics Express</i> , 2012, 20, 16174.	1.7	25
8	Low-index dielectric metasurfaces supported by metallic substrates for efficient second-harmonic generation in the blue-ultraviolet range. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7300-7305.	1.3	19
9	Slow light in dielectric composite materials of metal nanoparticles. <i>Optics Express</i> , 2012, 20, 25790.	1.7	17
10	Ultrahigh-Q Fano resonance using topological corner modes in second-order pseudospin-Hall photonic systems. <i>Optics and Laser Technology</i> , 2022, 147, 107616.	2.2	17
11	Strongly resonant metasurfaces supported by reflective substrates for highly efficient second- and high-harmonic generations with ultralow pump intensity. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19076-19082.	1.3	16
12	Dielectric Chiral Metasurfaces for Second-Harmonic Generation with Strong Circular Dichroism. <i>Annalen Der Physik</i> , 2020, 532, 2000078.	0.9	15
13	Second-Order Photonic Topological Corner States in Square Lattices with Low Symmetry. <i>Annalen Der Physik</i> , 2021, 533, 2100075.	0.9	15
14	Second-Harmonic Generation Based on the Dual-Band Second-Order Topological Corner States. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, 2100427.	1.2	15
15	Efficient non-perturbative high-harmonic generation from nonlinear metasurfaces with low pump intensity. <i>Optics and Laser Technology</i> , 2021, 135, 106702.	2.2	14
16	Fano resonance by dipole-hexapole coupling in a T-shaped plasmonic nanostructure. <i>Applied Optics</i> , 2015, 54, 2710.	0.9	13
17	Time-domain discrete-dipole approximation for simulation of temporal response of plasmonic nanoparticles. <i>Optics Express</i> , 2015, 23, 15555.	1.7	13
18	Broadband visible-near infrared and deep ultraviolet generation by four-wave mixing and high-order stimulated Raman scattering from the hybrid metasurfaces of plasmonic nanoantennae and Raman-active nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26615-26620.	1.3	13

#	ARTICLE	IF	CITATIONS
19	Asymmetric Second-Harmonic Generation with High Efficiency from a Non-chiral Hybrid Bilayer Complementary Metasurface. <i>Plasmonics</i> , 2021, 16, 77-82.	1.8	13
20	Corner States in 2D Square Lattice Second-Order Photonic Topological Insulators Composed of L-shaped Sublattices. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2100202.	0.7	13
21	High-order harmonic generation employing field enhancement by metallic fractal rough surfaces. <i>Optics Express</i> , 2011, 19, 20910.	1.7	10
22	Ultrafast Nonlinear Optical Responses of Dielectric Composite Materials Containing Metal Nanoparticles with Different Sizes and Shapes. <i>Plasmonics</i> , 2017, 12, 855-861.	1.8	10
23	Quasi-bound states in the continuum with high Q -factors in metasurfaces of lower-index dielectrics supported by metallic substrates. <i>RSC Advances</i> , 2022, 12, 1961-1967.	1.7	10
24	Theory of plasmonic femtosecond pulse generation by mode-locking of long-range surface plasmon polariton lasers. <i>Optics Express</i> , 2012, 20, 462.	1.7	9
25	Dual Band Second-Order Topological Corner States in 2D Valley-Hall Hexagonal Photonic Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, .	0.7	9
26	Slow and Stopped Light in Active Gain Composite Materials of Metal Nanoparticles: Ultralarge Group Index-Bandwidth Product Predicted. <i>Annalen Der Physik</i> , 2017, 529, 1700103.	0.9	8
27	All-dielectric bilayer complementary metasurfaces supporting quasi-bound states in the continuum induced by intrinsically broken out-of-plane symmetry. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 17242-17249.	1.3	8
28	Proposal for ultrasmall deep ultraviolet diamond Raman nanolaser. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	7
29	Unity-Order Nonlinear Optical Index Change in Epsilon-Near-Zero Composite Materials of Gain Media and Metal Nanoparticles. <i>Annalen Der Physik</i> , 2018, 530, 1700259.	0.9	7
30	Efficient Ultraviolet Nanosources Based on Third-Harmonic Generation in Dielectric-Metal Composite Nanodisks. <i>Annalen Der Physik</i> , 2020, 532, 1900383.	0.9	7
31	Parity-time symmetric photonic topological coupled waveguides. <i>Optics and Laser Technology</i> , 2021, 144, 107403.	2.2	7
32	Raman Spaser in a Plasmonic Nanoantenna Embedded with Raman-Active Nanoparticle. <i>Plasmonics</i> , 2017, 12, 1897-1901.	1.8	6
33	Metal-Dielectric Composite Nanostructures for Fano Resonance-Based Highly Sensitive SECARS from Visible to Deep-UV. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16281-16288.	1.5	6
34	Dielectric Materials Containing Active Dielectric-Metal Composite Nanoparticles as Double Negative Materials in the Visible. <i>Plasmonics</i> , 2018, 13, 1741-1748.	1.8	5
35	Slotted metal nanodisks supported by dielectric-coated metallic substrates for ultrahigh enhancement of coherent anti-Stokes and hyper-Raman scattering. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	5
36	Dielectric Huygens™ metasurfaces with diverse functionalities in the range from near-UV to deep-UV. <i>Optics Communications</i> , 2021, 493, 126993.	1.0	4

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37	Negative Refraction in the Visible and Strong Plasmonic Resonances in Photonic Structures of the Electride Material Mg ₂ N. <i>ChemPhysChem</i> , 2020, 21, 1541-1547.	1.0	3
38	The Two-Dimensional Electrides XONa (X=Mg, Ca) as Novel Natural Hyperbolic Materials. <i>ChemPhysChem</i> , 2021, 22, 92-98.	1.0	3
39	High-Harmonic Generation from 2D Monolayer Electrides. <i>Annalen Der Physik</i> , 2022, 534, 2100368.	0.9	3
40	Simultaneous appearance of different topological phases in a single photonic system: coexisting phases characterized by bulk polarization and valley-Chern number enable dual-band second-order topological states. <i>Physica Status Solidi (B): Basic Research</i> , 0, , .	0.7	3
41	Epsilon-Negative Active Composites: Loss-Free and Amplifying Plasmonic Materials. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700527.	0.7	2
42	Composite-Assisted Phase-Matching: Efficient Wavelength Conversion in Nonlinear Optical Composite Materials Containing Metal Nanoparticles. <i>Annalen Der Physik</i> , 2019, 531, 1800156.	0.9	2
43	Ultrafast Nonlinear Optical Effects of Metal Nanoparticles Composites. , 0, , .		0
44	Dielectric slotted nanodisk laser with ultralow pump threshold by anapole excitation. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	1.1	0
45	Second-Order Nonlinear Optical Responses of AlN Two-Dimensional Monolayer: A Real-Time First-Principles Study. <i>ChemPhysChem</i> , 2022, , e202100901.	1.0	0