Kwang-Hyon Kim

List of Publications by Year
in descending order

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45 papers	619 citations	687363 13 h-index	642732 23 g-index
45 all docs	45 docs citations	45 times ranked	479 citing authors

#	Article	IF	Citations
1	Linear and nonlinear optical characteristics of composites containing metal nanoparticles with different sizes and shapes. Optics Express, 2010, 18, 7488.	3.4	76
2	Anapole Resonances Facilitated by High-Index Contrast between Substrate and Dielectric Nanodisk Enhance Vacuum Ultraviolet Generation. ACS Photonics, 2018, 5, 4769-4775.	6.6	48
3	Theory of passive mode locking of solid-state lasers using metal nanocomposites as slow saturable absorbers. Optics Letters, 2012, 37, 1490.	3.3	44
4	Highâ€Q Chiroptical Resonances by Quasiâ€Bound States in the Continuum in Dielectric Metasurfaces with Simultaneously Broken Inâ€Plane Inversion and Mirror Symmetries. Advanced Optical Materials, 2021, 9, 2101162.	7.3	37
5	Saturable absorption in composites doped with metal nanoparticles. Optics Express, 2010, 18, 21918.	3.4	33
6	Multiband Photonic Topological Valleyâ€Hall Edge Modes and Secondâ€Order Corner States in Square Lattices. Advanced Optical Materials, 2021, 9, 2001865.	7.3	29
7	Theory of passive mode-locking of semiconductor disk lasers in the blue spectral range by metal nanocomposites. Optics Express, 2012, 20, 16174.	3.4	25
8	Low-index dielectric metasurfaces supported by metallic substrates for efficient second-harmonic generation in the blue-ultraviolet range. Physical Chemistry Chemical Physics, 2020, 22, 7300-7305.	2.8	19
9	Slow light in dielectric composite materials of metal nanoparticles. Optics Express, 2012, 20, 25790.	3.4	17
10	Ultrahigh-Q Fano resonance using topological corner modes in second-order pseudospin-Hall photonic systems. Optics and Laser Technology, 2022, 147, 107616.	4.6	17
11	Strongly resonant metasurfaces supported by reflective substrates for highly efficient second- and high-harmonic generations with ultralow pump intensity. Physical Chemistry Chemical Physics, 2019, 21, 19076-19082.	2.8	16
12	Dielectric Chiral Metasurfaces for Secondâ€Harmonic Generation with Strong Circular Dichroism. Annalen Der Physik, 2020, 532, 2000078.	2.4	15
13	Secondâ€Order Photonic Topological Corner States in Square Lattices with Low Symmetry. Annalen Der Physik, 2021, 533, 2100075.	2.4	15
14	Secondâ€Harmonic Generation Based on the Dualâ€Band Secondâ€Order Topological Corner States. Physica Status Solidi - Rapid Research Letters, 2022, 16, 2100427.	2.4	15
15	Efficient non-perturbative high-harmonic generation from nonlinear metasurfaces with low pump intensity. Optics and Laser Technology, 2021, 135, 106702.	4.6	14
16	Fano resonance by dipoleâ€“hexapole coupling in a Ї‡-shaped plasmonic nanostructure. Applied Optics, 2015, 54, 2710.	1.8	13
17	Time-domain discrete-dipole approximation for simulation of temporal response of plasmonic nanoparticles. Optics Express, 2015, 23, 15555.	3.4	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. Physical Chemistry Chemical Physics, 2019, 21, 26615-26620.	2.8	13

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19	Asymmetric Second-Harmonic Generation with High Efficiency from a Non-chiral Hybrid Bilayer Complementary Metasurface. Plasmonics, 2021, 16, 77-82.	3.4	13
20	Corner States in 2D Square Lattice Secondâ€Order Photonic Topological Insulators Composed of Lâ€Shaped Sublattices. Physica Status Solidi (B): Basic Research, 2021, 258, 2100202.	1.5	13
21	High-order harmonic generation employing field enhancement by metallic fractal rough surfaces. Optics Express, 2011, 19, 20910.	3.4	10
22	Ultrafast Nonlinear Optical Responses of Dielectric Composite Materials Containing Metal Nanoparticles with Different Sizes and Shapes. Plasmonics, 2017, 12, 855-861.	3.4	10
23	Quasi-bound states in the continuum with high Q-factors in metasurfaces of lower-index dielectrics supported by metallic substrates. RSC Advances, 2022, 12, 1961-1967.	3.6	10
24	Theory of plasmonic femtosecond pulse generation by mode-locking of long-range surface plasmon polariton lasers. Optics Express, 2012, 20, 462.	3.4	9
25	Dual Band Secondâ€Order Topological Corner States in 2D Valleyâ€Hall Hexagonal Photonic Crystals. Physica Status Solidi (B): Basic Research, 2022, 259, .	1.5	9
26	Slow and Stopped Light in Active Gain Composite Materials of Metal Nanoparticles: Ultralarge Group Indexâ€Bandwidth Product Predicted. Annalen Der Physik, 2017, 529, 1700103.	2.4	8
27	All-dielectric bilayer complementary metasurfaces supporting quasi-bound states in the continuum induced by intrinsically broken out-of-plane symmetry. Physical Chemistry Chemical Physics, 2022, 24, 17242-17249.	2.8	8
28	Proposal for ultrasmall deep ultraviolet diamond Raman nanolaser. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	7
29	Unityâ€Order Nonlinear Optical Index Change in Epsilonâ€Nearâ€Zero Composite Materials of Gain Media and Metal Nanoparticles. Annalen Der Physik, 2018, 530, 1700259.	2.4	7
30	Efficient Ultraviolet Nanosources Based on Thirdâ€Harmonic Generation in Dielectricâ€“Metal Composite Nanodisks. Annalen Der Physik, 2020, 532, 1900383.	2.4	7
31	Parity-time symmetric photonic topological coupled waveguides. Optics and Laser Technology, 2021, 144, 107403.	4.6	7
32	Raman Spaser in a Plasmonic Nanoantenna Embedded with Raman-Active Nanoparticle. Plasmonics, 2017, 12, 1897-1901.	3.4	6
33	Metalâ€“Dielectric Composite Nanostructures for Fano Resonance-Based Highly Sensitive SECARS from Visible to Deep-UV. Journal of Physical Chemistry C, 2018, 122, 16281-16288.	3.1	6
34	Dielectric Materials Containing Active Dielectric-Metal Composite Nanoparticles as Double Negative Materials in the Visible. Plasmonics, 2018, 13, 1741-1748.	3.4	5
35	Slotted metal nanodisks supported by dielectric-coated metallic substrates for ultrahigh enhancement of coherent anti-Stokes and hyper-Raman scattering. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	5
36	Dielectric Huygensâ€™ metasurfaces with diverse functionalities in the range from near-UV to deep-UV. Optics Communications, 2021, 493, 126993.	2.1	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. ChemPhysChem, 2020, 21, 1541-1547.	2.1	3
38	The Twoâ€Dimensional Electrides XONa (X=Mg, Ca) as Novel Natural Hyperbolic Materials. ChemPhysChem, 2021, 22, 92-98.	2.1	3
39	Highâ€Harmonic Generation from 2D Monolayer Electrides. Annalen Der Physik, 2022, 534, 2100368.	2.4	3
40	Simultaneous appearance of different topological phases in a single photonic system: coexisting phases characterized by bulk polarization and valleyâ€Chern number enable dualâ€band secondâ€order topological states. Physica Status Solidi (B): Basic Research, 0, , .	1.5	3
41	Epsilonâ€Negative Active Composites: Lossâ€Free and Amplifying Plasmonic Materials. Physica Status Solidi (B): Basic Research, 2018, 255, 1700527.	1.5	2
42	Compositeâ€Assisted Phaseâ€Matching: Efficient Wavelength Conversion in Nonlinear Optical Composite Materials Containing Metal Nanoparticles. Annalen Der Physik, 2019, 531, 1800156.	2.4	2
43	Ultrafast Nonlinear Optical Effects of Metal Nanoparticles Composites. , 0, , .		0
44	Dielectric slotted nanodisk laser with ultralow pump threshold by anapole excitation. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	0
45	Secondâ€Order Nonlinear Optical Responses of AlN Twoâ€Dimensional Monolayer: A Realâ€Time Firstâ€Principles Study. ChemPhysChem, 2022, , e202100901.	2.1	0