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Optical Effects in Solids

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#	Paper	IF	Citations
39	Beer's Law-Why Integrated Absorbance Depends Linearly on Concentration. <i>ChemPhysChem</i> , 2019 , 20, 2748-2753	3.2	32
38	An emerging Janus MoSeTe material for potential applications in optoelectronic devices. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12312-12320	7.1	45
37	Electronic Structure of the Plasmons in Metal Nanocrystals: Fundamental Limitations for the Energy Efficiency of Hot Electron Generation. <i>ACS Energy Letters</i> , 2019 , 4, 2552-2568	20.1	57
36	Fundamental Optical Properties of Materials I. 2019 , 1-36		2
35	Engineering electrical property of Dirac semimetal perovskite SrIrO ₃ thin films by subtle changes in lattice structure. <i>Applied Physics Express</i> , 2020 , 13, 015510	2.4	3
34	Far-infrared absorption of undoped and Br-doped carbon nanofiber powder in stacked-cup cone configuration. <i>Physical Review B</i> , 2020 , 102,	3.3	
33	The Bouguer-Beer-Lambert Law: Shining Light on the Obscure. <i>ChemPhysChem</i> , 2020 , 21, 2029-2046	3.2	44
32	Efficiency of Hot-Electron Generation in Plasmonic Nanocrystals with Complex Shapes: Surface-Induced Scattering, Hot Spots, and Interband Transitions. <i>ACS Photonics</i> , 2020 , 7, 2807-2824	6.3	26
31	Trapped Exciton and Large Birefringence in Cl ₂ NiDI Revealed by Optical Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 17829-17835	3.8	2
30	Magnetic-order-driven metal-insulator transitions in the quasi-one-dimensional spin-ladder compounds BaFe ₂ S ₃ and BaFe ₂ Se ₃ . <i>Physical Review B</i> , 2020 , 101,	3.3	2
29	Polarization-dependent vibrational shifts on dielectric substrates. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 17129-17133	3.6	4
28	Phase-Modulated Interferometry, Spectroscopy, and Refractometry using Entangled Photon Pairs. <i>Advanced Quantum Technologies</i> , 2020 , 3, 1900114	4.3	10
27	Terahertz Magnetospectroscopy of Cyclotron Resonances from Topological Surface States in Thick Films of Cd _x Hg _{1-x} Te. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2000023	1.3	5
26	A direct measurement method of quantum relaxation time. <i>National Science Review</i> , 2021 , 8, nwaa242	10.8	
25	Determination of Major Axis of Elliptically Polarized Wave Generated by Artificial Anisotropic Polarizers. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	
24	Spectroscopic trace of the Lifshitz transition and multivalley activation in thermoelectric SnSe under high pressure. <i>NPG Asia Materials</i> , 2021 , 13,	10.3	3
23	Hot Electron Generation through Near-Field Excitation of Plasmonic Nanoresonators. <i>ACS Photonics</i> , 2021 , 8, 1243-1250	6.3	4

22	Disentangling the Temporal Dynamics of Nonthermal Electrons in Photoexcited Gold Nanostructures. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2100017	8.3	2
21	Theory of Plasmonic Excitations. 2021 , 1-35		
20	Fabrication, physical, thermal and optical properties of oxyfluoride glasses doped with rare earth oxides. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 18951-18967	2.1	0
19	Comparative spectroscopy study of TeO ₂ B ₂ O ₃ glass system for photonic application: barium and bismuth as modifier. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	0
18	Evolution of the electronic structure of Ru-doped single-crystal iridates Sr ₂ Ir _{1-x} Ru _x O ₄ . <i>Physical Review B</i> , 2021 , 104,	3.3	0
17	Robust stability of optical and electronic properties of gallium doped zinc oxide thin films to gamma ray irradiation. <i>Physica Status Solidi (B): Basic Research</i> ,	1.3	0
16	Magnetic terahertz resonances above the Néel temperature in the frustrated kagome antiferromagnet averievite. <i>Physical Review B</i> , 2022 , 105,	3.3	0
15	Electron-hole symmetry in quasiparticle spectral weight of cuprates observed via infrared and photoemission spectroscopy. <i>Physical Review Materials</i> , 2022 , 6,	3.2	
14	Atomic substitution effects of inorganic perovskites for optoelectronic properties modulations. <i>EcoMat</i> ,	9.4	0
13	Skin effect as a probe of transport regimes in Weyl semimetals.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2200367119	11.5	0
12	Multi-Center Magnon Excitations Open the Entire Brillouin Zone to Terahertz Magnetometry of Quantum Magnets. <i>Advanced Quantum Technologies</i> , 2200023	4.3	0
11	Plasmonic Nanocrystals with Complex Shapes for Photocatalysis and Growth: Contrasting Anisotropic Hot-Electron Generation with the Photothermal Effect. <i>Advanced Optical Materials</i> , 2102663	8.1	1
10	Electron-boson spectral density functions of cuprates obtained from optical spectra via machine learning. <i>Physical Review B</i> , 2021 , 104,	3.3	
9	High-Performance Mid-IR to Deep-UV van der Waals Photodetectors Capable of Local Spectroscopy at Room Temperature.. <i>Nano Letters</i> , 2022 ,	11.5	1
8	Concomitant formation of a pseudogap with the $\sqrt{2} \times \sqrt{2}$ structural phase transition in melt-quenched As ₂ Te ₃ . 2022 , 106,		
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6	Photoabsorbance of Supported Metal Clusters: Ab Initio Density Matrix and Model Studies of Large Ag Clusters on Si Surfaces.		0
5	Light control with Weyl semimetals. 2023 , 3,		0

- 4 Coherent consolidation of trillions of nucleations for mono-atom step-level flat surfaces. **2023**, 14, ○
- 3 Kinetic theory of the nonlocal electrodynamic response in anisotropic metals: Skin effect in 2D systems. **2023**, 5, ○
- 2 Creating Chiral Plasmonic Nanostructures Using Chiral Light in a Solution and on a Substrate: The Near-Field and Hot-Electron Routes. ○
- 1 Optical conductivity and vibrational spectra of the narrow-gap semiconductor FeGa₃. **2023**, 107, ○