

# Dmitri Basov

## List of Publications by Year in descending order

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190  
papers

20,049  
citations

20817

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h-index

10734

138  
g-index

197  
all docs

197  
docs citations

197  
times ranked

16638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gate-tuning of graphene plasmons revealed by infrared nano-imaging. Nature, 2012, 487, 82-85.	27.8	1,780
2	Mott Transition in VO <sub>2</sub> Revealed by Infrared Spectroscopy and Nano-Imaging. Science, 2007, 318, 1750-1753.	12.6	1,246
3	Dirac charge dynamics in graphene by infrared spectroscopy. Nature Physics, 2008, 4, 532-535.	16.7	1,111
4	Tunable Phonon Polaritons in Atomically Thin van der Waals Crystals of Boron Nitride. Science, 2014, 343, 1125-1129.	12.6	957
5	Polaritons in van der Waals materials. Science, 2016, 354, .	12.6	799
6	Electrodynamics of correlated electron materials. Reviews of Modern Physics, 2011, 83, 471-541.	45.6	633
7	Towards properties on demand in quantum materials. Nature Materials, 2017, 16, 1077-1088.	27.5	560
8	Graphene on hexagonal boron nitride as a tunable hyperbolic metamaterial. Nature Nanotechnology, 2015, 10, 682-686.	31.5	526
9	Ultra-thin perfect absorber employing a tunable phase change material. Applied Physics Letters, 2012, 101, .	3.3	519
10	Photonics with hexagonal boron nitride. Nature Reviews Materials, 2019, 4, 552-567.	48.7	504
11	Fundamental limits to graphene plasmonics. Nature, 2018, 557, 530-533.	27.8	401
12	Subdiffractional focusing and guiding of polaritonic rays in a natural hyperbolic material. Nature Communications, 2015, 6, 6963.	12.8	340
13	Phase-transition driven memristive system. Applied Physics Letters, 2009, 95, .	3.3	322
14	Electronic correlations in the iron pnictides. Nature Physics, 2009, 5, 647-650.	16.7	317
15	Moiré heterostructures as a condensed-matter quantum simulator. Nature Physics, 2021, 17, 155-163.	16.7	317
16	Ultrafast optical switching of infrared plasmon polaritons in high-mobility graphene. Nature Photonics, 2016, 10, 244-247.	31.4	312
17	Ultralow-loss polaritons in isotopically pure boron nitride. Nature Materials, 2018, 17, 134-139.	27.5	291
18	Dynamic tuning of an infrared hybrid-metamaterial resonance using vanadium dioxide. Applied Physics Letters, 2008, 93, .	3.3	279

#	ARTICLE	IF	CITATIONS
19	Photonic crystals for nano-light in moiré graphene superlattices. Science, 2018, 362, 1153-1156. Electrodynamics of the vanadium oxides $\sqrt{V_0} \left( \frac{1}{2} \right)$	12.6	273
20	Electronic and plasmonic phenomena at graphene grain boundaries. Nature Nanotechnology, 2013, 8, 821-825.	31.5	226
21	Band Structure Asymmetry of Bilayer Graphene Revealed by Infrared Spectroscopy. Physical Review Letters, 2009, 102, 037403.	7.8	223
22	Optical characterization of a magnetic field: Infrared evidence for magnetoelectric coupling in a topological insulator material. Physical Review B, 2010, 81, .	3.2	207
23	Modern Scattering-Type Scanning Near-Field Optical Microscopy for Advanced Material Research. Advanced Materials, 2019, 31, e1804774.	21.0	205
24	Visualization of moiré superlattices. Nature Nanotechnology, 2020, 15, 580-584.	31.5	187
25	Active Optical Metasurfaces Based on Defect-Engineered Phase-Transition Materials. Nano Letters, 2016, 16, 1050-1055.	9.1	186
26	Nanotextured phase coexistence in the correlated insulator V <sub>2</sub> O <sub>3</sub> . Nature Physics, 2017, 13, 80-86.	16.7	172
27	Memristive adaptive filters. Applied Physics Letters, 2010, 97, .	3.3	171
28	Excitons in strain-induced one-dimensional moiré potentials at transition metal dichalcogenide heterojunctions. Nature Materials, 2020, 19, 1068-1073.	27.5	169
29	Infrared spectroscopy and nano-imaging of the insulator-to-metal transition in vanadium dioxide. Physical Review B, 2009, 79, .	3.2	164
30	Edge and Surface Plasmons in Graphene Nanoribbons. Nano Letters, 2015, 15, 8271-8276.	9.1	162
31	Ultrafast and Nanoscale Plasmonic Phenomena in Exfoliated Graphene Revealed by Infrared Pump-Probe Nanoscopy. Nano Letters, 2014, 14, 894-900.	9.1	158
32	Polariton panorama. Nanophotonics, 2020, 10, 549-577.	6.0	155
33	Correlated metallic state of vanadium dioxide. Physical Review B, 2006, 74, .	3.2	154
34	Plasmons in graphene moiré superlattices. Nature Materials, 2015, 14, 1217-1222.	27.5	141
35	Model for quantitative tip-enhanced spectroscopy and the extraction of nanoscale-resolved optical constants. Physical Review B, 2014, 90, .	3.2	140

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37	Low-loss composite photonic platform based on 2D semiconductor monolayers. Nature Photonics, 2020, 14, 256-262.	31.4	140
38	Deep moiré potentials in twisted transition metal dichalcogenide bilayers. Nature Physics, 2021, 17, 720-725.	16.7	124
39	Anisotropic Electronic State via Spontaneous Phase Separation in Strained Vanadium Dioxide Films. Physical Review Letters, 2013, 111, 096602.	7.8	122
40	Electrodynamics of the nodal metal state in weakly doped high-Tccuprates. Physical Review B, 2005, 72, .	3.2	119
41	Cooperative photoinduced metastable phase control in strained manganite films. Nature Materials, 2016, 15, 956-960.	27.5	118
42	Infrared Probe of Transition from Superconductor to Nonmetal in YBa <sub>2</sub> (Cu <sub>1-x</sub> Zn <sub>x</sub> ) <sub>4</sub> O <sub>8</sub> . Physical Review Letters, 1998, 81, 2132-2135.	7.8	110
43	Electrical oscillations induced by the metal-insulator transition in VO <sub>2</sub> . Journal of Applied Physics, 2010, 107, .	2.5	105
44	Nanoscale imaging of the electronic and structural transitions in vanadium dioxide. Physical Review B, 2011, 83, .	3.2	103
45	Layered Ruthenium Oxides: From Band Metal to Mott Insulator. Physical Review Letters, 1998, 81, 2747-2750.	7.8	93
46	Ultrafast Dynamics of Surface Plasmons in InAs by Time-Resolved Infrared Nanospectroscopy. Nano Letters, 2014, 14, 4529-4534.	9.1	92
47	Phase transition in bulk single crystals and thin films of $\text{VO}_2$ by nanoscale infrared spectroscopy and imaging. Physical Review B, 2015, 91, .	3.2	88
48	Electronic correlations in nodal-line semimetals. Nature Physics, 2020, 16, 636-641.	16.7	86
49	Reconfigurable gradient index using VO <sub>2</sub> memory metamaterials. Applied Physics Letters, 2011, 99, .	3.3	83
50	Near-field spectroscopy of silicon dioxide thin films. Physical Review B, 2012, 85, .	3.2	80
51	Efficiency of Launching Highly Confined Polaritons by Infrared Light Incident on a Hyperbolic Material. Nano Letters, 2017, 17, 5285-5290.	9.1	79
52	Imaging the nanoscale phase separation in vanadium dioxide thin films at terahertz frequencies. Nature Communications, 2018, 9, 3604.	12.8	79
53	Ellipsometric study of the electronic structure of Ga <sub>1-x</sub> MnxAs and low-temperature GaAs. Physical Review B, 2004, 70, .	3.2	76
54	Inhomogeneous electronic state near the insulator-to-metal transition in the correlated oxide $\text{VO}_2$ . Physical Review B, 2009, 80, .	3.2	74

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55	Anisotropic electrodynamics of type-II Weyl semimetal candidate $WTe_2$ . Physical Review B, 2017, 95, .		
56	Enhanced tunable second harmonic generation from twistable interfaces and vertical superlattices in boron nitride homostructures. Science Advances, 2021, 7, .	10.3	73
57	Electronic Correlations and Unconventional Spectral Weight Transfer in the High-Temperature Pnictide $BaFe_2As_2$ Using Infrared Spectroscopy. Physical Review Letters, 2012, 108, 147002.	7.8	69
58	Photonic crystal for graphene plasmons. Nature Communications, 2019, 10, 4780.	12.8	69
59	Coexisting first- and second-order electronic phase transitions in a correlated oxide. Nature Physics, 2018, 14, 1056-1061.	16.7	66
60	Tunneling Plasmonics in Bilayer Graphene. Nano Letters, 2015, 15, 4973-4978.	9.1	64
61	Electrostatic modification of infrared response in gated structures based on VO <sub>2</sub> . Applied Physics Letters, 2008, 92, .	3.3	60
62	Optical signatures of Dirac nodal lines in NbAs <sub>2</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1168-1173.	7.1	60
63	Moiré metrology of energy landscapes in van der Waals heterostructures. Nature Communications, 2021, 12, 242.	12.8	60
64	Optical studies of charge dynamics in optimally doped Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> + $\delta$ . Physical Review B, 2002, 66, .	3.2	59
65	Multi-messenger nanoprobe of hidden magnetism in a strained manganite. Nature Materials, 2020, 19, 397-404.	27.5	59
66	Moiré correlations in ABCA graphene. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	59
67	Nanoscale electrodynamics of strongly correlated quantum materials. Reports on Progress in Physics, 2017, 80, 014501.	20.1	58
68	Programmable hyperbolic polaritons in van der Waals semiconductors. Science, 2021, 371, 617-620.	12.6	58
69	Fizeau drag in graphene plasmonics. Nature, 2021, 594, 513-516.	27.8	57
70	Optical study of strained ultrathin films of strongly correlated $LaNiO_3$ . Physical Review B, 2011, 83, 115411.	3.2	54
71	Surface states in the topological insulator $Bi_2Se_3$ via magneto-optics. Physical Review B, 2012, 85, 040402.	3.2	54
72	Charge-Transfer Plasmon Polaritons at Graphene/RuCl <sub>3</sub> Interfaces. Nano Letters, 2020, 20, 8438-8445.	9.1	53

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73	Nanoscale infrared spectroscopy as a non-destructive probe of extraterrestrial samples. Nature Communications, 2014, 5, 5445.	12.8	52
74	Generalized spectral method for near-field optical microscopy. Journal of Applied Physics, 2016, 119, .	2.5	51
75	Imaging the Localized Plasmon Resonance Modes in Graphene Nanoribbons. Nano Letters, 2017, 17, 5423-5428.	9.1	51
76	Soliton superlattices in twisted hexagonal boron nitride. Nature Communications, 2019, 10, 4360.	12.8	51
77	Photoenhanced metastable c-axis electrodynamic in stripe-ordered cuprate $\text{La}_{1.885}\text{Ba}_{0.115}\text{CuO}_4$ . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19875-19879.	7.1	51
78	Chaotic memristor. Applied Physics A: Materials Science and Processing, 2011, 102, 885-889.	2.3	50
79	High-quality $\text{Bi}_2\text{Te}_3$ thin films grown on mica substrates for potential optoelectronic applications. Applied Physics Letters, 2013, 103, .	3.3	50
80	Infrared probe of the anomalous magnetotransport of highly oriented pyrolytic graphite in the extreme quantum limit. Physical Review B, 2006, 74, .	3.2	49
81	Unconventional energetics of the pseudogap state and superconducting state in high-Tccuprates. Physical Review B, 2001, 63, .	3.2	47
82	Measuring the Josephson plasma resonance in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ using intense coherent THz synchrotron radiation. Physical Review B, 2004, 69, .	3.2	47
83	Thickness-dependent bulk electronic properties in $\text{Bi}_2\text{Se}_3$ thin films revealed by infrared spectroscopy. Physical Review B, 2013, 88, .	3.2	45
84	Infrared Studies of the Onset of Conductivity in Ultrathin Pb Films. Physical Review Letters, 1999, 83, 4880-4883.	7.8	44
85	Phase Change Hyperbolic Heterostructures for Nanopolaritonics: A Case Study of $\text{hBN}/\text{VO}_2$ . Advanced Materials, 2019, 31, e1900251.	21.0	43
86	Intrinsic Plasmon-Phonon Interactions in Highly Doped Graphene: A Near-Field Imaging Study. Nano Letters, 2017, 17, 5908-5913.	9.1	42
87	Anisotropic infrared response of vanadium dioxide microcrystals. Physical Review B, 2013, 87, .	3.2	41
88	Continuous Wave Sum Frequency Generation and Imaging of Monolayer and Heterobilayer Two-Dimensional Semiconductors. ACS Nano, 2020, 14, 708-714.	14.6	41
89	Ultraconfined Plasmonic Hotspots Inside Graphene Nanobubbles. Nano Letters, 2016, 16, 7842-7848.	9.1	40
90	Moiré engineering of electronic phenomena in correlated oxides. Nature Physics, 2020, 16, 631-635.	16.7	40

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91	Shining Light on Transition-Metal Oxides: Unveiling the Hidden Fermi Liquid. Physical Review Letters, 2014, 113, 246404.	7.8	39
92	Long-Lived Phonon Polaritons in Hyperbolic Materials. Nano Letters, 2021, 21, 5767-5773.	9.1	38
93	Collective modes and terahertz near-field response of superconductors. Physical Review Research, 2020, 2, .	3.6	38
94	Insulator-to-metal transition and correlated metallic state of $V_2O_3$ investigated by optical spectroscopy. Physical Review B, 2012, 85, .	3.2	37
95	Symmetry breaking and geometric confinement in VO <sub>2</sub> : Results from a three-dimensional infrared nano-imaging. Applied Physics Letters, 2014, 104, 121905.	3.3	36
96	Random Field Driven Spatial Complexity at the Mott Transition in $VO_2$ . Physical Review Letters, 2016, 116, 036401.	7.8	36
97	Nano-photocurrent Mapping of Local Electronic Structure in Twisted Bilayer Graphene. Nano Letters, 2020, 20, 2958-2964.	9.1	34
98	Hyperbolic enhancement of photocurrent patterns in minimally twisted bilayer graphene. Nature Communications, 2021, 12, 1641.	12.8	34
99	Nanoscale lattice dynamics in hexagonal boron nitride moiré superlattices. Nature Communications, 2021, 12, 5741.	12.8	34
100	Hamiltonian Optics of Hyperbolic Polaritons in Nanogranules. Nano Letters, 2015, 15, 4455-4460.	9.1	32
101	Infrared nanospectroscopy and imaging of collective superfluid excitations in anisotropic superconductors. Physical Review B, 2014, 90, .	3.2	31
102	Tunable Plasmonic Reflection by Bound 1D Electron States in a 2D Dirac Metal. Physical Review Letters, 2016, 117, 086801.	7.8	31
103	Femtosecond exciton dynamics in WSe <sub>2</sub> optical waveguides. Nature Communications, 2020, 11, 3567.	12.8	31
104	Phonon splitting and anomalous enhancement of infrared-active modes in BaFe <sub>2</sub> As <sub>2</sub> . Physical Review B, 2011, 84, .	3.2	30
105	Artifact free time resolved near-field spectroscopy. Optics Express, 2017, 25, 28589.	3.4	30
106	Surface plasmons induce topological transition in graphene/±-MoO <sub>3</sub> heterostructures. Nature Communications, 2022, 13, .	12.8	30
107	Do organic and other exotic superconductors fail universal scaling relations?. Scientific Reports, 2013, 3, .	3.3	29
108	Tuning and Persistent Switching of Graphene Plasmons on a Ferroelectric Substrate. Nano Letters, 2015, 15, 4859-4864.	9.1	29

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109	Internal Nanostructure Diagnosis with Hyperbolic Phonon Polaritons in Hexagonal Boron Nitride. Nano Letters, 2018, 18, 5205-5210.	9.1	29
110	Terahertz response of monolayer and few-layer WTe <sub>2</sub> at the nanoscale. Nature Communications, 2021, 12, 5594.	12.8	29
111	Optical probe of strong correlations in LaNiO <sub>3</sub> thin films. Journal of Applied Physics, 2011, 110, .	2.5	28
112	Persistent Detwinning of Iron-Pnictide $\text{EuFe}_2\text{As}_2$ by Small External Magnetic Fields. Physical Review Letters, 2014, 113, 227001.	7.8	28
113	Gate-Variable Mid-Infrared Optical Transitions in a (BiSb) <sub>2</sub> Te <sub>3</sub> Topological Insulator. Nano Letters, 2017, 17, 255-260.	9.1	27
114	Adiabatic Amplification of Plasmons and Demons in 2D Systems. Physical Review Letters, 2016, 117, 076805.	7.8	26
115	Superluminal plasmons with resonant gain in population inverted bilayer graphene. Physical Review B, 2018, 98, .	3.2	26
116	Infrared probe of the insulator-to-metal transition in $\text{GaMnAs}$ heterostructures. Nano Letters, 2022, 22, 1946-1953.	3.2	25
117	Nanometer-Scale Lateral $\pi$ -n Junctions in Graphene/ $\pm$ -RuCl <sub>3</sub> Heterostructures. Nano Letters, 2022, 22, 1946-1953.	9.1	25
118	Electronic excitations and metal-insulator transition in poly(3-hexylthiophene) organic field-effect transistors. Physical Review B, 2007, 75, .	3.2	24
119	Infrared study of the electronic structure of the metallic pyrochlore iridate $\text{Bi}_2\text{IrO}_7$ . Physical Review B, 2012, 86, .	3.2	24
120	Internal strain tunes electronic correlations on the nanoscale. Science Advances, 2018, 4, eaau9123.	10.3	24
121	Broadband multi-interferometer spectroscopy in high magnetic fields: From THz to visible. Review of Scientific Instruments, 2004, 75, 4710-4717.	1.3	23
122	Magnetic and structural phase diagram of $\text{CaMnSb}_2$ . Physical Review B, 2012, 86, .	3.2	23
123	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides. Nature Communications, 2022, 13, 542.	12.8	23
124	Interplane charge dynamics in a valence-bond dynamical mean-field theory of cuprate superconductors. Physical Review B, 2010, 82, .	3.2	22
125	Gap states in insulating $\text{LaMnPO}_4$ ( $x=0 \sim 0.3$ ). Physical Review B, 2011, 84, .	3.2	22
126	Sum-Rule Constraints on the Surface State Conductance of Topological Insulators. Physical Review Letters, 2015, 115, 116804.	7.8	22



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127	Hybrid Machine Learning for Scanning Near-Field Optical Spectroscopy. ACS Photonics, 2021, 8, 2987-2996.	6.6	22
128	Visualizing Atomically Layered Magnetism in CrSb. Advanced Materials, 2022, 34, e2201000.	21.0	22
129	Quasiparticle dynamics and in-plane anisotropy in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> near the onset of superconductivity. Physical Review B, 2004, 70, .	3.2	21
130	Infrared pseudogap in cuprate and pnictide high-temperature superconductors. Physical Review B, 2014, 90, .	3.2	21
131	Infrared electrodynamics and ferromagnetism in the topological semiconductors Bi <sub>2</sub> Te <sub>3</sub> and Mn-doped Bi <sub>2</sub> Te <sub>3</sub> . Physical Review B, 2014, 89, .	3.2	21
132	Faraday Rotation Due to Surface States in the Topological Insulator (Bi <sub>1-x</sub> Sb <sub>x</sub> ) <sub>2</sub> Te <sub>3</sub> . Nano Letters, 2017, 17, 980-984.	9.1	21
133	Infrared survey of the carrier dynamics in III-V digital ferromagnetic heterostructures. Physical Review B, 2005, 71, .	3.2	20
134	Induction of charge density waves by spin density waves in iron-based superconductors. Physical Review B, 2010, 82, .	3.2	20
135	Infrared signatures of high carrier densities induced in semiconducting poly(3-hexylthiophene) by fluorinated organosilane molecules. Journal of Applied Physics, 2010, 107, 123702.	2.5	19
136	Ferromagnetism and infrared electrodynamics of Ga <sub>1-x</sub> Mn <sub>x</sub> As. Physical Review B, 2013, 87, .	3.2	18
137	Origin of the charge gap in LaMnPO. Physical Review B, 2014, 90, .	3.2	18
138	Interpreting quantum oscillation experiments on underdoped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> . Physical Review B, 2010, 81, .	3.2	17
139	Ultrahigh-Resolution, Label-Free Hyperlens Imaging in the Mid-IR. Nano Letters, 2021, 21, 7921-7928.	9.1	17
140	Interlayer electrodynamics and unconventional vortex state in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> . Physical Review B, 2007, 76, .	3.2	16
141	Breakdown of the universal Josephson relation in spin-ordered cuprate superconductors. Physical Review B, 2010, 82, .	3.2	16
142	Heterostructuring and strain effects on the infrared optical properties of nickelates. Physical Review B, 2012, 86, .	3.2	16
143	Infrared probe of the bulk insulating response in (Bi <sub>1-x</sub> Sb <sub>x</sub> ) <sub>2</sub> Te <sub>3</sub> . Physical Review B, 2017, 95, .	3.2	16
144	Third-order optical conductivity of an electron fluid. Physical Review B, 2018, 97, .	3.2	16

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145	Ultrafast nonlocal collective dynamics of Kane plasmon-polaritons in a narrow-gap semiconductor. <i>Science Advances</i> , 2019, 5, eaau9956.	10.3	16
146	Quantitative Nanoinfrared Spectroscopy of Anisotropic van der Waals Materials. <i>Nano Letters</i> , 2020, 20, 7933-7940.	9.1	16
147	Nonlinear nanoelectrodynamics of a Weyl metal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
148	Differential sum rule for the relaxation rate in dirty superconductors. <i>Physical Review B</i> , 2003, 68, .	3.2	14
149	Intertwined magnetic, structural, and electronic transitions in V2O3. <i>Physical Review B</i> , 2019, 100, .	3.2	14
150	Nanotextured Dynamics of a Light-Induced Phase Transition in VO <sub>2</sub> . <i>Nano Letters</i> , 2021, 21, 9052-9060.	9.1	14
151	Ellipsometric study of the electronic band structure of $\text{CrO}_2$ the ferromagnetic transition. <i>Physical Review B</i> , 2009, 79, .	3.2	13
152	Correlation-driven metal-insulator transition in proximity to an iron-based superconductor. <i>Physical Review B</i> , 2017, 96, .	3.2	13
153	Hyperbolic Cooper-Pair Polaritons in Planar Graphene/Cuprate Plasmonic Cavities. <i>Nano Letters</i> , 2021, 21, 308-316.	9.1	13
154	Dual-Gated Graphene Devices for Near-Field Nano-imaging. <i>Nano Letters</i> , 2021, 21, 1688-1693.	9.1	13
155	Magnetic field induced modification of superfluid density and interplane spectral weight in YBa2Cu3Oy. <i>Physical Review B</i> , 2009, 79, .	3.2	12
156	Weak-coupling superconductivity in a strongly correlated iron pnictide. <i>Scientific Reports</i> , 2016, 6, 18620.	3.3	12
157	Programmable Bloch polaritons in graphene. <i>Science Advances</i> , 2021, 7, .	10.3	12
158	Nano-imaging of strain-tuned stripe textures in a Mott crystal. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	12
159	Rapid simulations of hyperspectral near-field images of three-dimensional heterogeneous surfaces. <i>Optics Express</i> , 2021, 29, 39648.	3.4	12
160	In-Plane Anisotropy in Biaxial ReS <sub>2</sub> Crystals Probed by Nano-Optical Imaging of Waveguide Modes. <i>ACS Photonics</i> , 2022, 9, 443-451.	6.6	12
161	Rapid simulations of hyperspectral near-field images of three-dimensional heterogeneous surfaces – part II. <i>Optics Express</i> , 2022, 30, 11228.	3.4	12
162	Infrared spectra of the low-dimensional quantum magnet SrCu <sub>2</sub> Measurements and <i>ab initio</i> calculat. <i>Physical Review B</i> , 2009, 79, .	3.2	11

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163	Two-dimensional reconfigurable gradient index memory metasurface. Applied Physics Letters, 2013, 102, .	3.3	11
164	Nanoscale Infrared Spectroscopy and Imaging of Catalytic Reactions in Cu <sub>2</sub> O Crystals. ACS Photonics, 2020, 7, 576-580.	6.6	11
165	Band structure of a two-dimensional Dirac semimetal from cyclotron resonance. Physical Review B, 2017, 96, .	3.2	10
166	Harnessing ultraconfined graphene plasmons to probe the electrodynamics of superconductors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
167	Deep Learning Analysis of Polaritonic Wave Images. ACS Nano, 2021, 15, 18182-18191.	14.6	10
168	Extracting the Strain Matrix and Twist Angle from the Moiré Superlattice in van der Waals Heterostructures. ACS Nano, 2022, 16, 1471-1476.	14.6	10
169	Strong-coupling effects in cuprate high-T <sub>c</sub> superconductors by magneto-optical studies. Physical Review B, 2005, 72, .	3.2	9
170	An infrared probe of tunable dielectrics in metal-oxide-semiconductor structures. Applied Physics Letters, 2005, 86, 223506.	3.3	9
171	Infrared conductivity of hole accumulation and depletion layers in (Ga,Mn)As- and (Ga,Be)As-based electric field-effect devices. Physical Review B, 2012, 86, .	3.2	9
172	The quest for ultrafast plasmonics. Nature Nanotechnology, 2017, 12, 187-188.	31.5	9
173	Infrared nanoimaging of the metal-insulator transition in the charge-density-wave van der Waals material 1TâTaS <sub>2</sub> . Physical Review B, 2018, 97, .	3.2	9
174	Strong MetasurfaceâJosephson Plasma Resonance Coupling in Superconducting La 2â x Sr x CuO 4. Advanced Optical Materials, 2019, 7, 1900712.	7.3	9
175	Probing subwavelength in-plane anisotropy with antenna-assisted infrared nano-spectroscopy. Nature Communications, 2021, 12, 2649.	12.8	9
176	Possibility of magnetic-field-induced reconstruction of the Fermi surface in underdoped cuprates: Constraints from infrared magneto-optics. Physical Review B, 2010, 81, .	3.2	7
177	Infrared spectroscopy of narrow gap donor-acceptor polymer-based ambipolar transistors. Physical Review B, 2012, 86, .	3.2	7
178	Intrinsic Charge Dynamics in High- T <sub>c</sub> AFeAs(O,F) Superconductors. Physical Review Letters, 2018, 120, 087001.	7.8	7
179	Plasmonic imaging is gaining momentum. Science, 2017, 357, 132-133.	12.6	5
180	Nanoscale Femtosecond Dynamics of Mott Insulator (Ca <sub>0.99</sub> Sr <sub>0.01</sub> ) <sub>2</sub> RuO <sub>4</sub> . Nano Letters, 2022, 22, 5689-5697.	9.1	5

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181	Graphene as a source of entangled plasmons. Physical Review Research, 2022, 4, .	3.6	4
182	A near-field study of VO <sub>2</sub> /(100)TiO <sub>2</sub> film and its crack-induced strain relief. Applied Physics Letters, 2022, 121, .	3.3	3
183	Nanoscale Infrared Spectroscopy: A non-Destructive Probe of Formation History in Extraterrestrial Samples. Microscopy and Microanalysis, 2014, 20, 1668-1669.	0.4	0
184	Electronic correlations and pressure-induced metallicity in $\text{LaMnPO}_x$ revealed via infrared spectroscopy. Physical Review B, 2016, 94, .	3.2	0
185	Quantum diffusion of electrons in quasiperiodic and periodic approximant lattices in the rare earth-cadmium system. Philosophical Magazine, 2016, 96, 1122-1130.	1.6	0
186	Ultralow Loss Polaritons in Isotopically Pure Hexagonal Boron Nitride. , 2019, , .		0
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