Ridong Wang

List of Publications by Year
in descending order

35 papers	1,038 citations	361045 20 h-index	414034 32 g-index
36 all docs	36 docs citations	36 times ranked	987 citing authors

#	Article	IF	Citations
1	Methods for Measuring Thermal Conductivity of Two-Dimensional Materials: A Review. Nanomaterials, 2022, 12, 589.	1.9	7
2	Photothermal phenomenon: Extended ideas for thermophysical properties characterization. Journal of Applied Physics, 2022, 131, .	1.1	46
3	DNA-Based Biosensors for the Biochemical Analysis: A Review. Biosensors, 2022, 12, 183.	2.3	32
4	A Fiber-Based SPR Aptasensor for the In Vitro Detection of Inflammation Biomarkers. Micromachines, 2022, 13, 1036.	1.4	5
5	A thermal activated and differential self-calibrated flexible epidermal biomicrofluidic device for wearable accurate blood glucose monitoring. Science Advances, 2021, 7, .	4.7	91
6	Direct Characterization of Thermal Nonequilibrium between Optical and Acoustic Phonons in Graphene Paper under Photon Excitation. Advanced Science, 2021, 8, 2004712.	5.6	12
7	The in-plane structure domain size of nm-thick MoSe₂ uncovered by low-momentum phonon scattering. Nanoscale, 2021, 13, 7723-7734.	2.8	7
8	Interfacial Thermal Conductance between Monolayer WSe₂ and SiO₂ under Consideration of Radiative Electronâ€“Hole Recombination. ACS Applied Materials & Interfaces, 2020, 12, 51069-51081.	4.0	18
9	Energy and Charge Transport in 2D Atomic Layer Materials: Raman-Based Characterization. Nanomaterials, 2020, 10, 1807.	1.9	8
10	Thermal conductance between water and nm-thick WS₂: extremely localized probing using nanosecond energy transport state-resolved Raman. Nanoscale Advances, 2020, 2, 5821-5832.	2.2	6
11	Distinguishing Optical and Acoustic Phonon Temperatures and Their Energy Coupling Factor under Photon Excitation in nm 2D Materials. Advanced Science, 2020, 7, 2000097.	5.6	34
12	In situ investigation of annealing effect on thermophysical properties of single carbon nanocoil. International Journal of Heat and Mass Transfer, 2020, 151, 119416.	2.5	15
13	Pressure self-compensation for humidity sensing using graphene-oxide-modified dual-frequency CMUT. Sensors and Actuators B: Chemical, 2020, 314, 128074.	4.0	2
14	Thermal behavior of materials in laser-assisted extreme manufacturing: Raman-based novel characterization. International Journal of Extreme Manufacturing, 2020, 2, 032004.	6.3	25
15	Thermal transport and energy dissipation in two-dimensional Bi2O2Se. Applied Physics Letters, 2019, 115, .	1.5	28
16	Polarized Raman of Nanoscale Two-Dimensional Materials: Combined Optical and Structural Effects. Journal of Physical Chemistry C, 2019, 123, 23236-23245.	1.5	16
17	Hot carrier transfer and phonon transport in suspended nm WS2 films. Acta Materialia, 2019, 175, 222-237.	3.8	34
18	Graphene Aerogel Based Bolometer for Ultrasensitive Sensing from Ultraviolet to Far-Infrared. ACS Nano, 2019, 13, 5385-5396.	7.3	42

#	Article	IF	Citations
19	Anisotropic thermal conductivities and structure in lignin-based microscale carbon fibers. Carbon, 2019, 147, 58-69.	5.4	37
20	Frequency-domain energy transport state-resolved Raman for measuring the thermal conductivity of suspended nm-thick MoSe2. International Journal of Heat and Mass Transfer, 2019, 133, 1074-1085.	2.5	48
21	Thermal conductivity of SiC microwires: Effect of temperature and structural domain size uncovered by 0 K limit phonon scattering. Ceramics International, 2018, 44, 11218-11224.	2.3	25
22	Very fast hot carrier diffusion in unconstrained MoS₂on a glass substrate: discovered by picosecond ET-Raman. RSC Advances, 2018, 8, 12767-12778.	1.7	24
23	Characterization of anisotropic thermal conductivity of suspended nm-thick black phosphorus with frequency-resolved Raman spectroscopy. Journal of Applied Physics, 2018, 123, .	1.1	23
24	Measurement of the thermal conductivities of suspended MoS₂ and MoSe₂ by nanosecond ET-Raman without temperature calibration and laser absorption evaluation. Nanoscale, 2018, 10, 23087-23102.	2.8	51
25	Nonmonotonic thickness-dependence of in-plane thermal conductivity of few-layered MoS₂: 2.4 to 37.8 nm. Physical Chemistry Chemical Physics, 2018, 20, 25752-25761.	1.3	45
26	The hot carrier diffusion coefficient of sub-10 nm virgin MoS₂: uncovered by non-contact optical probing. Nanoscale, 2017, 9, 6808-6820.	2.8	46
27	A high-accuracy measurement method of glucose concentration in interstitial fluid based on microdialysis. Measurement Science and Technology, 2017, 28, 115701.	1.4	3
28	Energy Transport State Resolved Raman for Probing Interface Energy Transport and Hot Carrier Diffusion in Few-Layered MoS₂. ACS Photonics, 2017, 4, 3115-3129.	3.2	41
29	Interfacial Thermal Conductance between Mechanically Exfoliated Black Phosphorus and SiO_x: Effect of Thickness and Temperature. Advanced Materials Interfaces, 2017, 4, 1700233.	1.9	16
30	Identifying the Crystalline Orientation of Black Phosphorus by Using Optothermal Raman Spectroscopy. ChemPhysChem, 2017, 18, 2828-2834.	1.0	12
31	Asymmetry of Raman scattering by structure variation in space. Optics Express, 2017, 25, 18378.	1.7	4
32	A continuous glucose monitoring device by graphene modified electrochemical sensor in microfluidic system. Biomicrofluidics, 2016, 10, 011910.	1.2	47
33	A flexible electrochemical glucose sensor with composite nanostructured surface of the working electrode. Sensors and Actuators B: Chemical, 2016, 230, 801-809.	4.0	71
34	Inkjet-printed microelectrodes on PDMS as biosensors for functionalized microfluidic systems. Lab on A Chip, 2015, 15, 690-695.	3.1	113
35	A Method for Measuring the Volume of Transdermally Extracted Interstitial Fluid by a Three-Electrode Skin Resistance Sensor. Sensors, 2014, 14, 7084-7095.	2.1	4