Meguya Ryu

List of Publications by Year
in descending order

56 papers	691 citations	567281 15 h-index	642732 23 g-index
60 all docs	60 docs citations	60 times ranked	807 citing authors

#	Article	IF	Citations
1	Photothermally Driven High-Speed Crystal Actuation and Its Simulation. Journal of the American Chemical Society, 2021, 143, 8866-8877.	13.7	42
2	Nanostructured Antireflective and Thermoisolative Cicada Wings. Langmuir, 2016, 32, 4698-4703.	3.5	41
3	Orientational Mapping Augmented Sub-Wavelength Hyper-Spectral Imaging of Silk. Scientific Reports, 2017, 7, 7419.	3.3	36
4	Black-CuO: surface-enhanced Raman scattering and infrared properties. Nanoscale, 2015, 7, 18299-18304.	5.6	34
5	Silk: Optical Properties over 12.6 Octaves THz-IR-Visible-UV Range. Materials, 2017, 10, 356.	2.9	28
6	Micro-thermocouple on nano-membrane: thermometer for nanoscale measurements. Scientific Reports, 2018, 8, 6324.	3.3	26
7	Hyperspectral mapping of anisotropy. Nanoscale Horizons, 2019, 4, 1443-1449.	8.0	26
8	Infrared thermo-spectroscopic imaging of styrene radical polymerization in microfluidics. Chemical Engineering Journal, 2017, 324, 259-265.	12.7	25
9	3D printed polarizing grids for IR-THz synchrotron radiation. Journal of Optics (United Kingdom), 2018, 20, 035101.	2.2	25
10	Silk fibroin as a water-soluble bio-resist and its thermal properties. RSC Advances, 2016, 6, 11863-11869.	3.6	24
11	High-speed dynamics of temperature distribution in ultrafast (up to 108â€‰K/s) chip-nanocalorimeters, measured by infrared thermography of high resolution. Journal of Applied Physics, 2019, 125, .	2.5	23
12	Simple multi-wavelength imaging of birefringence:case study of silk. Scientific Reports, 2018, 8, 17652.	3.3	22
13	Coupling of molecular vibration and metasurface modes for efficient mid-infrared emission. Journal of Materials Chemistry C, 2022, 10, 451-462.	5.5	19
14	Nano-rescaling of gold films on polystyrene: thermal management for SERS. Nanoscale, 2017, 9, 690-695.	5.6	18
15	Nanoscale chemical mapping of laser-solubilized silk. Materials Research Express, 2017, 4, 115028.	1.6	17
16	Paracetamol micro-structure analysis by optical mapping. Applied Surface Science, 2019, 473, 127-132.	6.1	17
17	Temperature-Dependent Thermoelastic Anisotropy of the Phenyl Pyrimidine Liquid Crystal. Journal of Physical Chemistry C, 2019, 123, 17148-17154.	3.1	16
18	Nanoscale optical and structural characterisation of silk. Beilstein Journal of Nanotechnology, 2019, 10, 922-929.	2.8	15

#	Article	IF	Citations
19	Thermal conductivity of silicon nanocrystals and polystyrene nanocomposite thin films. Journal Physics D: Applied Physics, 2016, 49, 365303.	2.8	14
20	Infrared Polariscopy Imaging of Linear Polymeric Patterns with a Focal Plane Array. Nanomaterials, 2019, 9, 732.	4.1	14
21	Quadrupole modelling of dual lock-in method for the simultaneous measurements of thermal diffusivity and thermal effusivity. International Journal of Heat and Mass Transfer, 2020, 162, 120337.	4.8	14
22	Attenuated Total Reflection at THz Wavelengths: Prospective Use of Total Internal Reflection and Polariscopy. Applied Sciences (Switzerland), 2021, 11, 7632.	2.5	14
23	Photo-controllable thermal diffusivity and thermal conductivity driven by the orientation change of nematic liquid crystal with azo-dendrimers. Applied Physics Letters, 2015, 107, .	3.3	13
24	Simultaneous microscopic measurements of thermal and spectroscopic fields of a phase change material. Infrared Physics and Technology, 2016, 76, 65-71.	2.9	13
25	Analysis of the adhesive properties of carbon nanotube- and graphene oxide nanoribbon-dispersed aliphatic epoxy resins based on the Maxwell model. International Journal of Adhesion and Adhesives, 2018, 84, 27-36.	2.9	13
26	Laser-Inscribed Stress-Induced Birefringence of Sapphire. Nanomaterials, 2019, 9, 1414.	4.1	13
27	Direct Measurement of Temperature Diffusivity of Nanocellulose-Doped Biodegradable Composite Films. Micromachines, 2020, 11, 738.	2.9	13
28	Comparative study of thermal conductivity in crystalline and amorphous nanocomposite. Applied Physics Letters, 2017, 110, .	3.3	10
29	Tilted black-Si: â¯¼0.45 form-birefringence from sub-wavelength needles. Optics Express, 2020, 28, 16012.	3.4	10
30	Si-based infrared optical filters. Optical Engineering, 2015, 54, 127103.	1.0	9
31	Near-Field IR Orientational Spectroscopy of Silk. Applied Sciences (Switzerland), 2019, 9, 3991.	2.5	9
32	Hyperspectral Molecular Orientation Mapping in Metamaterials. Applied Sciences (Switzerland), 2021, 11, 1544.	2.5	9
33	Variations of interfacial thermal conductance at melting and crystallization of an indium micro-particle in contact with a solid. Materials and Design, 2021, 201, 109475.	7.0	9
34	Thermal contact conductance at melting and crystallization of metal micro-droplets. Materials Research Express, 2020, 7, 066524.	1.6	8
35	Non-contact temperature field measurement of solids by infrared multispectral thermotransmittance. Journal of Applied Physics, 2017, 121, .	2.5	7
36	Thermal diffusivity of organosuperelastic soft crystals during stress-induced phase transition. Applied Physics Letters, 2021, 119, .	3.3	7

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37	Intracrystalline Kinetics Analyzed by Real-Time Monitoring of a 1,2-Dioxetane Chemiluminescence Reaction in a Single Crystal. Bulletin of the Chemical Society of Japan, 2022, 95, 413-420.	3.2	6
38	Calibration Procedure for Attenuation Coefficient Measurements in Highly Opaque Media Using Infrared Focal Plane Array (IRFPA) Spectroscopy. Applied Spectroscopy, 2018, 72, 177-187.	2.2	5
39	Simultaneous measurements of anisotropic thermal diffusivity and thermal effusivity of liquid crystals using temperature wave analysis method. Japanese Journal of Applied Physics, 2016, 55, 111701.	1.5	4
40	Microscale spectroscopic thermal imaging of n-alkanes. Quantitative InfraRed Thermography Journal, 2017, 14, 154-163.	4.2	4
41	Thermal effect on dispersive infrared spectroscopic imaging of prostate cancer tissue. Journal of Biophotonics, 2018, 11, e201800187.	2.3	4
42	Anisotropy of 3D Columnar Coatings in Mid-Infrared Spectral Range. Nanomaterials, 2021, 11, 3247.	4.1	3
43	Interfacial region effect on thermal conductivity of silicon nanocrystal and polystyrene nanocomposites. Plasma Processes and Polymers, 2020, 17, 1900212.	3.0	2
44	Probe-based microscale measurement setup for the thermal diffusivity of soft materials. Review of Scientific Instruments, 2022, 93, 044901.	1.3	2
45	Nonthermal plasma synthesis of silicon nanoparticles and their thermal transport properties. Journal Physics D: Applied Physics, 2018, 51, 505301.	2.8	1
46	Anisotropic 3D columnar micro-film coating for applications in infrared and visible spectral ranges. Applied Surface Science, 2022, 590, 152910.	6.1	1
47	Analyses of chemiluminescence reactions of fluorophore-linked 1,2-dioxetane isomers in crystals heating at elevated temperature including a development of a simultaneous measurement method of thermal diffusivity and light emission for a single crystal. Analytical Sciences, 0, , .	1.6	1
48	3D laser printing by ultra-short laser pulses for micro-optical applications: towards telecom wavelengths. Proceedings of SPIE, 2017, , .	0.8	0
49	Phonon transport properties in silicon nanoparticles and polymer nanocomposite thin films. AIP Conference Proceedings, 2018, , .	0.4	0
50	(Invited) Novel Technique to Measure Thermal Diffusivity of Soft Crystal in Micro Scale. ECS Meeting Abstracts, 2021, MA2021-01, 700-700.	0.0	0
51	(Invited) A Soft-Crystal Chemiluminescence System: Luminescence Property of Adamantylideneadamantane 1,2-Dioxetanes Conjugated with a Fluorophore. ECS Meeting Abstracts, 2021, MA2021-01, 699-699.	0.0	0
52	(Invited) Study on Soft-Crystal Chemiluminescence, a Solid-State Chemistry to Support Devise Development. ECS Meeting Abstracts, 2021, MA2021-01, 697-697.	0.0	0
53	Multispectral IR thermotransmittance technique for temperature measurement. , 0, , .		0
54	Microscale spectroscopic thermal imaging of n-alkanes. , 0, , .		0

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55	UV illumination for electron and ion beam microscopy and nanofabrication. , 2019, , .		0
56	Optical anisotropy of glancing angle deposited thin films on nano-patterned substrates. Optical Materials Express, 2022, 12, 1281.	3.0	0