

Meguya Ryu

List of Publications by Year in descending order

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56
papers

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567281

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60
docs citations

60
times ranked

807
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupling of molecular vibration and metasurface modes for efficient mid-infrared emission. <i>Journal of Materials Chemistry C</i> , 2022, 10, 451-462.	5.5	19
2	Intracrystalline Kinetics Analyzed by Real-Time Monitoring of a 1,2-Dioxetane Chemiluminescence Reaction in a Single Crystal. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 413-420.	3.2	6
3	Optical anisotropy of glancing angle deposited thin films on nano-patterned substrates. <i>Optical Materials Express</i> , 2022, 12, 1281.	3.0	0
4	Anisotropic 3D columnar micro-film coating for applications in infrared and visible spectral ranges. <i>Applied Surface Science</i> , 2022, 590, 152910.	6.1	1
5	Probe-based microscale measurement setup for the thermal diffusivity of soft materials. <i>Review of Scientific Instruments</i> , 2022, 93, 044901.	1.3	2
6	Hyperspectral Molecular Orientation Mapping in Metamaterials. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1544.	2.5	9
7	Variations of interfacial thermal conductance at melting and crystallization of an indium micro-particle in contact with a solid. <i>Materials and Design</i> , 2021, 201, 109475.	7.0	9
8	(Invited) Novel Technique to Measure Thermal Diffusivity of Soft Crystal in Micro Scale. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 700-700.	0.0	0
9	(Invited) A Soft-Crystal Chemiluminescence System: Luminescence Property of Adamantylideneadamantane 1,2-Dioxetanes Conjugated with a Fluorophore. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 699-699.	0.0	0
10	(Invited) Study on Soft-Crystal Chemiluminescence, a Solid-State Chemistry to Support Device Development. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 697-697.	0.0	0
11	Photothermally Driven High-Speed Crystal Actuation and Its Simulation. <i>Journal of the American Chemical Society</i> , 2021, 143, 8866-8877.	13.7	42
12	Attenuated Total Reflection at THz Wavelengths: Prospective Use of Total Internal Reflection and Polariscopy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7632.	2.5	14
13	Anisotropy of 3D Columnar Coatings in Mid-Infrared Spectral Range. <i>Nanomaterials</i> , 2021, 11, 3247.	4.1	3
14	Thermal diffusivity of organosuperelastic soft crystals during stress-induced phase transition. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	7
15	Quadrupole modelling of dual lock-in method for the simultaneous measurements of thermal diffusivity and thermal effusivity. <i>International Journal of Heat and Mass Transfer</i> , 2020, 162, 120337.	4.8	14
16	Direct Measurement of Temperature Diffusivity of Nanocellulose-Doped Biodegradable Composite Films. <i>Micromachines</i> , 2020, 11, 738.	2.9	13
17	Interfacial region effect on thermal conductivity of silicon nanocrystal and polystyrene nanocomposites. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900212.	3.0	2
18	Thermal contact conductance at melting and crystallization of metal micro-droplets. <i>Materials Research Express</i> , 2020, 7, 066524.	1.6	8

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19	Tilted black-Si: $\lambda/4.45$ form-birefringence from sub-wavelength needles. Optics Express, 2020, 28, 16012.	3.4	10
20	Hyperspectral mapping of anisotropy. Nanoscale Horizons, 2019, 4, 1443-1449.	8.0	26
21	Temperature-Dependent Thermoelastic Anisotropy of the Phenyl Pyrimidine Liquid Crystal. Journal of Physical Chemistry C, 2019, 123, 17148-17154.	3.1	16
22	Near-Field IR Orientational Spectroscopy of Silk. Applied Sciences (Switzerland), 2019, 9, 3991.	2.5	9
23	Laser-Inscribed Stress-Induced Birefringence of Sapphire. Nanomaterials, 2019, 9, 1414.	4.1	13
24	High-speed dynamics of temperature distribution in ultrafast (up to 108 $\mu\text{K/s}$) chip-nanocalorimeters, measured by infrared thermography of high resolution. Journal of Applied Physics, 2019, 125, .	2.5	23
25	Infrared Polariscope Imaging of Linear Polymeric Patterns with a Focal Plane Array. Nanomaterials, 2019, 9, 732.	4.1	14
26	Nanoscale optical and structural characterisation of silk. Beilstein Journal of Nanotechnology, 2019, 10, 922-929.	2.8	15
27	Paracetamol micro-structure analysis by optical mapping. Applied Surface Science, 2019, 473, 127-132.	6.1	17
28	UV illumination for electron and ion beam microscopy and nanofabrication. , 2019, , .		0
29	Micro-thermocouple on nano-membrane: thermometer for nanoscale measurements. Scientific Reports, 2018, 8, 6324.	3.3	26
30	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
31	3D printed polarizing grids for IR-THz synchrotron radiation. Journal of Optics (United Kingdom), 2018, 20, 035101.	2.2	25
32	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
33	Simple multi-wavelength imaging of birefringence: case study of silk. Scientific Reports, 2018, 8, 17652.	3.3	22
34	Phonon transport properties in silicon nanoparticles and polymer nanocomposite thin films. AIP Conference Proceedings, 2018, , .	0.4	0
35	Nonthermal plasma synthesis of silicon nanoparticles and their thermal transport properties. Journal Physics D: Applied Physics, 2018, 51, 505301.	2.8	1
36	Thermal effect on dispersive infrared spectroscopic imaging of prostate cancer tissue. Journal of Biophotonics, 2018, 11, e201800187.	2.3	4

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37	Infrared thermo-spectroscopic imaging of styrene radical polymerization in microfluidics. Chemical Engineering Journal, 2017, 324, 259-265.	12.7	25
38	Non-contact temperature field measurement of solids by infrared multispectral thermotransmittance. Journal of Applied Physics, 2017, 121, .	2.5	7
39	Nano-rescaling of gold films on polystyrene: thermal management for SERS. Nanoscale, 2017, 9, 690-695.	5.6	18
40	3D laser printing by ultra-short laser pulses for micro-optical applications: towards telecom wavelengths. Proceedings of SPIE, 2017, , .	0.8	0
41	Oriental Mapping Augmented Sub-Wavelength Hyper-Spectral Imaging of Silk. Scientific Reports, 2017, 7, 7419.	3.3	36
42	Nanoscale chemical mapping of laser-solubilized silk. Materials Research Express, 2017, 4, 115028.	1.6	17
43	Comparative study of thermal conductivity in crystalline and amorphous nanocomposite. Applied Physics Letters, 2017, 110, .	3.3	10
44	Microscale spectroscopic thermal imaging of n-alkanes. Quantitative InfraRed Thermography Journal, 2017, 14, 154-163.	4.2	4
45	Silk: Optical Properties over 12.6 Octaves THz-IR-Visible-UV Range. Materials, 2017, 10, 356.	2.9	28
46	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
47	Nanostructured Antireflective and Thermoisolative Cicada Wings. Langmuir, 2016, 32, 4698-4703.	3.5	41
48	Thermal conductivity of silicon nanocrystals and polystyrene nanocomposite thin films. Journal Physics D: Applied Physics, 2016, 49, 365303.	2.8	14
49	Simultaneous microscopic measurements of thermal and spectroscopic fields of a phase change material. Infrared Physics and Technology, 2016, 76, 65-71.	2.9	13
50	Silk fibroin as a water-soluble bio-resist and its thermal properties. RSC Advances, 2016, 6, 11863-11869.	3.6	24
51	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
52	Si-based infrared optical filters. Optical Engineering, 2015, 54, 127103.	1.0	9
53	Black-CuO: surface-enhanced Raman scattering and infrared properties. Nanoscale, 2015, 7, 18299-18304.	5.6	34
54	Multispectral IR thermotransmittance technique for temperature measurement. , 0, , .		0

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55	Microscale spectroscopic thermal imaging of n-alkanes. , 0, , .		0
56	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