Toshimitsu Kanai

List of Publications by Year
in descending order

41 papers	951 citations	516215 16 h-index	454577 30 g-index
41 all docs	41 docs citations	41 times ranked	1013 citing authors

#	Article	IF	Citations
1	Gelâ€Immobilized Colloidal Crystal Shell with Enhanced Thermal Sensitivity at Photonic Wavelengths. Advanced Materials, 2010, 22, 4998-5002.	11.1	117
2	Fabrication of Tunable Spherical Colloidal Crystals Immobilized in Soft Hydrogels. Small, 2010, 6, 807-810.	5.2	114
3	Magnetic, electric, and optical functionalities of (PLZT)x(BiFeO3)1â^'x ferroelectricâ€“ferromagnetic thin films. Journal of Physics and Chemistry of Solids, 2003, 64, 391-397.	1.9	88
4	Widely Tunable Lasing in a Colloidal Crystal Gel Film Permanently Stabilized by an Ionic Liquid. Advanced Materials, 2011, 23, 3815-3820.	11.1	70
5	Gelation of Colloidal Crystals without Degradation in Their Transmission Quality and Chemical Tuning. Langmuir, 2005, 21, 10268-10270.	1.6	58
6	Microfluidic devices fabricated using stereolithography for preparation of monodisperse double emulsions. Chemical Engineering Journal, 2016, 290, 400-404.	6.6	56
7	New Route to Produce Dry Colloidal Crystals without Cracks. Langmuir, 2009, 25, 13315-13317.	1.6	50
8	Optical Determination of the Lattice Constants of Colloidal Crystals without Use of the Refractive Index. Langmuir, 2003, 19, 1984-1986.	1.6	34
9	Kossel Line Analysis of Flow-Aligned Textures of Colloidal Crystals. Japanese Journal of Applied Physics, 2003, 42, L655-L657.	0.8	32
10	Surface Treatment of Flow Channels in Microfluidic Devices Fabricated by Stereolithography. Journal of Oleo Science, 2014, 63, 93-96.	0.6	32
11	Crystallization and reentrant melting of charged colloids in nonpolar solvents. Physical Review E, 2015, 91, 030301.	0.8	32
12	Linear thermosensitivity of gel-immobilized tunable colloidal photonic crystals. Journal of Materials Chemistry C, 2013, 1, 6103.	2.7	30
13	Preparation of monodisperse PNIPAM gel particles in a microfluidic device fabricated by stereolithography. Polymer Journal, 2011, 43, 987-990.	1.3	26
14	Swelling of Gel-Immobilized Colloidal Photonic Crystals in Ionic Liquids. Macromolecules, 2011, 44, 5865-5867.	2.2	26
15	Tuning the Effective Width of the Optical Stop Band in Colloidal Photonic Crystals. Langmuir, 2007, 23, 3503-3505.	1.6	23
16	Enhancement of Thermosensitivity of Gel-Immobilized Tunable Colloidal Photonic Crystals with Anisotropic Contraction. ACS Macro Letters, 2017, 6, 1196-1200.	2.3	21
17	Fabrication of large-area silica colloidal crystals immobilized in hydrogel film. Journal of the Ceramic Society of Japan, 2010, 118, 370-373.	0.5	17
18	Critical Concentration for Colloidal Crystallization Determined with Microliter Centrifuged Suspensions. Langmuir, 2005, 21, 7633-7637.	1.6	15

#	Article	IF	Citations
19	Quantitative Evaluation of Spatial Uniformity in Spectral Characteristics for Large-area Colloidal Crystals. Chemistry Letters, 2005, 34, 904-905.	0.7	13
20	Preparation of monodisperse hybrid gel particles with various morphologiesviaflow rate and temperature control. Soft Matter, 2019, 15, 6934-6937.	1.2	13
21	Equilibrium Characteristic at Orderedâ^'Disordered Phase Boundary in Centrifuged Nonequilibrium Colloidalâ^'Crystal System. Journal of the American Chemical Society, 2004, 126, 13210-13211.	6.6	10
22	Preparation of Monodisperse Solid Fat Microspheres in a Microfluidic Device. Journal of Chemical Engineering of Japan, 2016, 49, 541-543.	0.3	8
23	Density of Etch Pits on C-Face 4H-SiC Surface Produced by ClF₃ Gas. Materials Science Forum, 0, 725, 49-52.	0.3	7
24	Gel-immobilized single-crystal-like colloidal crystal films. Journal of the Ceramic Society of Japan, 2012, 120, 87-92.	0.5	7
25	Wide Spectral Tuning of Gel-immobilized Colloidal Crystals Preserving High Uniformity. Chemistry Letters, 2012, 41, 495-497.	0.7	7
26	Protection against a wide UV wavelength range by Bragg reflection from polycrystalline colloidal photonic crystals. Journal of Materials Chemistry C, 2019, 7, 7512-7515.	2.7	7
27	Enhanced linear thermosensitivity of gel-immobilized colloidal photonic crystal film bound on glass substrate. Materials Advances, 2021, 2, 2600-2603.	2.6	7
28	Density and Behavior of Etch Pits on C-Face 4H-SiC Surface Produced by ClF₃ Gas. Materials Science Forum, 2012, 717-720, 379-382.	0.3	6
29	Elastomer-immobilized tunable colloidal photonic crystal films with high optical qualities and high maximum strain. Materials Advances, 0, , .	2.6	5
30	Tuning and fixing of uniform Bragg reflection color of gel-immobilized colloidal photonic crystal films. Polymer Journal, 0, , .	1.3	5
31	Independent control of optical stop-band wavelength and width of colloidal photonic crystals. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 586-590.	2.3	4
32	Generation of Monodisperse Microbubbles with a Controlled Size of Less Than 10â€‰Âμm at a Generation Rate on the Order of 10⁵ Bubbles/s in Glass Capillary Microfluidic Devices. Journal of Chemical Engineering of Japan, 2021, 54, 549-556.	0.3	4
33	Size-Controlled Preparation of Monodisperse Microbubbles using Co-Flow Glass Capillary Microfluidic Device. Kagaku Kogaku Ronbunshu, 2019, 45, 10-15.	0.1	3
34	Preparation of monodisperse silica-polyacrylamide hybrid particles with snowman or core-shell morphologies using a microfluidic device. Journal of Asian Ceramic Societies, 2022, 10, 378-385.	1.0	3
35	Gel-Immobilized Colloidal Photonic Crystals with Tunable Properties. , 2015, , 431-450.		1
36	Fabrication of Large-Area Colloidal Photonic Crystals and Their Optical Property. Kobunshi Ronbunshu, 2007, 64, 1-8.	0.2	0

#	Article	IF	Citations
37	Fabrication of single-domain colloidal crystal gel films and their tuning characteristics. , 2007, , .		0
38	Microfluidic Fabrication of Spherical Gel-Immobilized Colloidal Crystals. Kobunshi Ronbunshu, 2011, 68, 532-539.	0.2	0
39	Spectral Tuning of Gel-Immobilized Colloidal Photonic Crystals. Kobunshi Ronbunshu, 2015, 72, 582-589.	0.2	0
40	Visualization of Strain Using Elastomer-Immobilized Tunable Colloidal Photonic Crystal Films. Journal of the Japan Society of Colour Material, 2021, 94, 252-255.	0.0	0
41	Preparation of Emulsions by Microfluidic Devices. Oleoscience, 2018, 18, 269-274.	0.0	0