

# Tsunehisa Kimura

## List of Publications by Year in descending order

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docs citations

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times ranked

2264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer Composites of Carbon Nanotubes Aligned by a Magnetic Field. <i>Advanced Materials</i> , 2002, 14, 1380-1383.	21.0	436
2	Study on the Effect of Magnetic Fields on Polymeric Materials and Its Application. <i>Polymer Journal</i> , 2003, 35, 823-843.	2.7	228
3	Magnetic Alignment of the Chiral Nematic Phase of a Cellulose Microfibril Suspension. <i>Langmuir</i> , 2005, 21, 2034-2037.	3.5	180
4	Magnetic Orientation of Polymer Fibers in Suspension. <i>Langmuir</i> , 2000, 16, 858-861.	3.5	133
5	Experimental determination of electron inelastic mean free paths in 13 elemental solids in the 50 to 5000 eV energy range by elastic-peak electron spectroscopy. <i>Surface and Interface Analysis</i> , 2005, 37, 833-845.	1.8	132
6	Crystal orientation of $\beta$ -phase isotactic polypropylene induced by magnetic orientation of N,N'-dicyclohexyl-2,6-naphthalenedicarboxamide. <i>Polymer</i> , 2002, 43, 7301-7306.	3.8	86
7	Magnetic Alteration of Crystallite Alignment Converting Powder to a Pseudo Single Crystal. <i>Langmuir</i> , 2006, 22, 3464-3466.	3.5	82
8	Uniaxial Alignment of the Smallest Diamagnetic Susceptibility Axis Using Time-Dependent Magnetic Fields. <i>Langmuir</i> , 2004, 20, 5669-5672.	3.5	75
9	Magnetic Orientation of Isotactic Polystyrene. <i>Macromolecules</i> , 1997, 30, 3600-3605.	4.8	70
10	Three-Dimensional Crystal Alignment Using a Time-Dependent Elliptic Magnetic Field. <i>Langmuir</i> , 2005, 21, 4805-4808.	3.5	69
11	Magnetic orientation of isotactic polypropylene. <i>Polymer</i> , 2000, 41, 155-159.	3.8	68
12	Magnetic orientation of poly(ethylene terephthalate). <i>Polymer</i> , 2000, 41, 809-812.	3.8	66
13	Magnetic orientation of poly(ethylene-2,6-naphthalate). <i>Polymer</i> , 1996, 37, 1879-1882.	3.8	65
14	Fabrication of c-axis oriented polycrystalline ZnO by using a rotating magnetic field and following sintering. <i>Journal of Materials Research</i> , 2006, 21, 703-707.	2.6	62
15	Micropatterning of Cells Using Modulated Magnetic Fields. <i>Langmuir</i> , 2005, 21, 830-832.	3.5	51
16	Particle Trapping and Undulation of a Liquid Surface Using a Microscopically Modulated Magnetic Field. <i>Langmuir</i> , 2004, 20, 572-574.	3.5	41
17	The pseudo-single-crystal method: a third approach to crystal structure determination. <i>Journal of Applied Crystallography</i> , 2009, 42, 535-537.	4.5	41
18	Tunable Self-Assembly of Cellulose Nanowhiskers and Polyvinyl Alcohol Chains Induced by Surface Tension Torque. <i>Biomacromolecules</i> , 2014, 15, 60-65.	5.4	35

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19	Magnetic orientation of poly(ethylene-2,6-naphthalate) during crystallization from melt. <i>Polymer</i> , 1998, 39, 6325-6330.	3.8	31
20	Single-Crystal X-ray Diffraction Study of a Magnetically Oriented Microcrystal Array of Lysozyme. <i>Crystal Growth and Design</i> , 2011, 11, 12-15.	3.0	31
21	Orientalional Distribution of Cellulose Nanocrystals in a Cellulose Whisker As Studied by Diamagnetic Anisotropy. <i>Macromolecules</i> , 2013, 46, 8957-8963.	4.8	31
22	X-ray diffraction study of a pseudo single crystal prepared from a crystal belonging to point group 2. <i>Journal of Applied Crystallography</i> , 2010, 43, 151-153.	4.5	30
23	Magnetic alignment and patterning of cellulose fibers. <i>Science and Technology of Advanced Materials</i> , 2008, 9, 024212.	6.1	29
24	Alignment and Micropatterning of Carbon Nanotubes in Polymer Composites Using Modulated Magnetic Field. <i>Polymer Journal</i> , 2007, 39, 589-592.	2.7	28
25	Magnetic field responsive silicone elastomer loaded with short steel wires having orientation distribution. <i>Soft Matter</i> , 2012, 8, 6206.	2.7	28
26	Separation of Solid Polymers by Magneto-Archimedes Levitation. <i>Chemistry Letters</i> , 2000, 29, 1294-1295.	1.3	27
27	Orientation of Feeble Magnetic Particles in Dynamic Magnetic Fields. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 020217.	1.5	26
28	Magnetic Processing of Diamagnetic Materials. <i>Polymers</i> , 2020, 12, 1491.	4.5	25
29	Grain Oriented Microstructure Made in High Magnetic Field. <i>Key Engineering Materials</i> , 2002, 206-213, 445-448.	0.4	24
30	Levitation Polymerization to Fabricate a Large Polymer Sphere. <i>Langmuir</i> , 2002, 18, 9609-9610.	3.5	24
31	Single crystal structure analysis via magnetically oriented microcrystal arrays. <i>CrystEngComm</i> , 2014, 16, 6630-6634.	2.6	24
32	Light-driven Bending of Polymer Films in Which Salicylidenephenylethylamine Crystals are Aligned Magnetically. <i>Chemistry Letters</i> , 2013, 42, 1517-1519.	1.3	21
33	X-ray Diffraction of a Magnetically Oriented Microcrystal Suspension of $\alpha$ -Alanine. <i>Crystal Growth and Design</i> , 2011, 11, 945-948.	3.0	20
34	Melt Structure of Crystalline Polymers as Studied by Means of Magnetic Orientation. <i>Materials Transactions, JIM</i> , 2000, 41, 955-961.	0.9	19
35	Determination of Anisotropic Diamagnetic Susceptibility of Polymeric Fibers Suspended in Liquid*. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 2237-2240.	1.5	18
36	Printing Birefringent Figures by Surface Tension-Directed Self-Assembly of a Cellulose Nanocrystal/Polymer Ink Components. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 1538-1545.	8.0	18

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37	Fabrication of a short carbon fiber/gel composite that responds to a magnetic field. <i>Carbon</i> , 2010, 48, 4015-4018.	10.3	16
38	Magnetically textured powders as an alternative to single-crystal and powder X-ray diffraction methods. <i>CrystEngComm</i> , 2018, 20, 861-872.	2.6	15
39	A Kinetic Study on Magnetic Orientation of a Liquid Crystalline Copolyester. <i>Polymer Journal</i> , 1998, 30, 455-462.	2.7	14
40	Simultaneous Alignment and Micropatterning of Organic Crystallites under a Modulated Magnetic Field. <i>Langmuir</i> , 2006, 22, 4853-4855.	3.5	14
41	Magnetic effect on the phase transitions of n-C32H66 measured by high resolution and super-sensitive DSC. <i>Physica B: Condensed Matter</i> , 2002, 324, 63-71.	2.7	13
42	Superconducting properties of filled skutterudite La0.8Rh4P12. <i>Physical Review B</i> , 2007, 75, .	3.2	13
43	Single-Crystal Neutron Diffraction Study of Pseudo Single Crystal Prepared from Microcrystalline Powder. <i>Crystal Growth and Design</i> , 2010, 10, 48-51.	3.0	13
44	One-dimensional core-shell cellulose-akaganeite hybrid nanocrystals: synthesis, characterization, and magnetic field induced self-assembly. <i>RSC Advances</i> , 2014, 4, 52542-52549.	3.6	13
45	Orientation of cellulose triacetate films cast from solution in high magnetic field. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 1942-1947.	2.1	12
46	Magnetic and Viscoelastic Study on Molten State of Low Molecular Weight Isotactic Polypropylene. <i>Macromolecules</i> , 2000, 33, 8421-8425.	4.8	11
47	Magnetic Alignment of Poly(carbonate). <i>Chemistry Letters</i> , 2001, 30, 1140-1141.	1.3	11
48	Orientation-dependent Magneto-Clapeyron Equation. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 6818-6820.	1.5	11
49	Synthesis and orientation study of a magnetically aligned liquid-crystalline chitin/poly(acrylic acid) composite. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 711-714.	2.1	11
50	Characterization of Three-Dimensional Magnetic Alignment for Magnetically Biaxial Particles. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 013003.	1.5	11
51	Experimental Determinations of Electron Inelastic Mean Free Paths in Silver, Gold, Copper and Silicon from Electron Elastic Peak Intensity Ratios. <i>Journal of Surface Analysis (Online)</i> , 2002, 9, 285-290.	0.1	10
52	Chemical shift tensor determination using magnetically oriented microcrystal array (MOMA): <sup>13</sup> C solid-state CP NMR without MAS. <i>Journal of Magnetic Resonance</i> , 2012, 223, 68-72.	2.1	10
53	Orientation Fluctuation of Microcrystals under Three-Dimensionally Constraining Dynamic Magnetic Field. <i>Crystal Growth and Design</i> , 2013, 13, 1815-1819.	3.0	10
54	Synthesis and FTIR spectroscopic studies on shear induced oriented liquid crystalline chitin/poly(acrylic acid) composite. <i>Journal of Applied Polymer Science</i> , 2003, 90, 1932-1940.	2.6	9

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55	Microcrystal-like cellulose fibrils as the diamagnetic director for microfluidic systems. <i>Journal of Applied Physics</i> , 2014, 115, 17B519.	2.5	9
56	Single-crystal structure determination from microcrystalline powders ( $\hat{a}^{1/45} \hat{1}^{1/4m}$ ) by an orientation attachment mountable on an in-house X-ray diffractometer. <i>CrystEngComm</i> , 2016, 18, 2404-2407.	2.6	9
57	Magnetic Alignment of Rhodamine B Intercalated in Synthetic Mica. <i>Macromolecular Symposia</i> , 2006, 242, 120-125.	0.7	8
58	X-ray diffraction from magnetically oriented microcrystal suspensions detected by a shutterless continuous rotation method. <i>Journal of Applied Crystallography</i> , 2016, 49, 2100-2105.	4.5	8
59	X-ray crystal structure analysis of magnetically oriented microcrystals of lysozyme at 1.8 Å resolution. <i>Journal of Applied Crystallography</i> , 2016, 49, 457-461.	4.5	8
60	Phase Transformation of Polymeric Materials in High Magnetic Field. <i>Materials Transactions</i> , 2003, 44, 2520-2523.	1.2	7
61	Solid-state NMR meets electron diffraction: determination of crystalline polymorphs of small organic microcrystalline samples. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017, 73, 219-228.	0.5	7
62	Biaxial Magnetic Orientation of Zinc Citrate as Nucleating Agent of Poly(l-lactic acid). <i>Chemistry Letters</i> , 2017, 46, 830-832.	1.3	7
63	Formation of Contact Holes on Bumps on Semiconductor Chip by Micro-Moses Effect. <i>Advanced Materials</i> , 2006, 18, 1549-1551.	21.0	6
64	Single-Crystal X-ray Diffraction Analysis of Microcrystalline Powders Using Magnetically Oriented Microcrystal Suspensions. <i>Crystal Growth and Design</i> , 2016, 16, 2810-2813.	3.0	6
65	Three-dimensional alignment of cellulose II microcrystals under a strong magnetic field. <i>Cellulose</i> , 2021, 28, 6757-6765.	4.9	6
66	Determination of Ratio of Diamagnetic Anisotropy of a Biaxial Crystal by X-ray Diffraction Measurement. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 060203.	1.5	5
67	Magnetic Alignments of Endohedral Metallofullerene Nanorods under Magnetic Fields. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 35-39.	2.1	5
68	X-ray diffraction study on the orientation dynamics of biaxial microcrystals under static and rotating magnetic fields. <i>CrystEngComm</i> , 2019, 21, 4221-4226.	2.6	5
69	Neutron and X-ray single-crystal diffraction from protein microcrystals via magnetically oriented microcrystal arrays in gels. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 823-829.	2.3	5
70	Determination of Ratio of Diamagnetic Anisotropy of a Biaxial Crystal by X-ray Diffraction Measurement. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 060203.	1.5	5
71	Magnetic Effects on Extrudate Swell of a Polystyrene Melt in Capillary Extrusion Dies. <i>Polymer Journal</i> , 2005, 37, 541-544.	2.7	4
72	Crystal System Determination from X-ray Diffraction of Magnetically Oriented Microcrystal Suspensions. <i>Crystal Growth and Design</i> , 2014, 14, 6486-6491.	3.0	4

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73	Filtration-Assisted Magnetic Micropatterning of Bacterial Cellulose. <i>Polymer Journal</i> , 2007, 39, 1199-1201.	2.7	3
74	Effects of Carbon Contaminations on Electron-Induced Damage of SiO <sub>2</sub> Film Surface at Different Electron Primary Energies. <i>Journal of Surface Analysis (Online)</i> , 2011, 18, 26-35.	0.1	3
75	Determination of anisotropic magnetic susceptibility of a biaxial crystal via orientational fluctuation of its microcrystalline suspension under magnetic field. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 055501.	1.5	3
76	Excimer Laser Ablation and Morphology of Uniaxially Stretched Poly(ethylene-2,6-naphthalate) Films. <i>Polymer Journal</i> , 1999, 31, 524-529.	2.7	2
77	The FE-WDS-EPMA Analysis of the Segregation at the Grain Boundary of Stainless Steel. <i>Microscopy and Microanalysis</i> , 2007, 13, .	0.4	2
78	The intensity changes of ultra-soft X-ray spectra of several light element oxides. <i>Microscopy and Microanalysis</i> , 2008, 14, 1286-1287.	0.4	2
79	Determination of <sup>31</sup> P Chemical Shift Tensor from Microcrystalline Powder by Using a Magnetically Oriented Microcrystal Array. <i>Crystal Growth and Design</i> , 2015, 15, 718-722.	3.0	2
80	Single-crystal NMR approach for determining chemical shift tensors from powder samples via magnetically oriented microcrystal arrays. <i>Journal of Magnetic Resonance</i> , 2015, 255, 28-33.	2.1	2
81	Magnetic Alignment of Magnetically Biaxial Diamagnetic Rods under Rotating Magnetic Fields. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 057301.	1.5	2
82	Magnetic Orientation of Polymers A Novel Technique of Controlling Birefringence. <i>Materials Research Society Symposia Proceedings</i> , 1999, 598, 361.	0.1	1
83	MAGNETIC ALIGNMENT AND CRYSTALLIZATION BEHAVIOR OF ISOTACTIC POLYSTYRENE. , 2005, . .		1
84	The Application of Micro Area Analysis of Al-Cu Junction by Wavelength-Dispersive EPMA Equipped with a FE Electron Gun.. <i>Microscopy and Microanalysis</i> , 2006, 12, 1420-1421.	0.4	1
85	Electron Probe Microanalysis of Li K-alpha with Newly Developed Ultra-Soft X-ray Spectrometer. <i>Microscopy and Microanalysis</i> , 2006, 12, 872-873.	0.4	1
86	Theoretical Study about Si L <sub>2,3</sub> Spectra with The Cluster Calculation. <i>Microscopy and Microanalysis</i> , 2007, 13, .	0.4	1
87	The Quantitative Analysis of Super-Low Phosphorus Content of SUS316L Type Stainless Steel With EPMA Calibration Curve Method. <i>Microscopy and Microanalysis</i> , 2008, 14, 1136-1137.	0.4	1
88	Determination of the Anisotropic Rotational Diffusion Constant of Microcrystals Dispersed in Liquid Medium. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9123-9127.	2.5	1
89	X-ray Single-Crystal Structural Analysis of a Magnetically Oriented Monoclinic Microcrystal Suspension of L±-Glycine. <i>Crystals</i> , 2019, 9, 561.	2.2	1
90	Orientation loss of microcrystals of DyBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> in a polymer composite during curing of the medium under an external magnetic field. <i>CrystEngComm</i> , 2020, 22, 5606-5612.	2.6	1

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91	Cross-sectional analysis of the interface between Sn-Ag-Cu solder alloy and Substrate by using angle lapping method. Journal of Surface Analysis (Online), 2002, 9, 416-419.	0.1	1
92	Discrimination of two crystal forms of a $\text{DyBa}_2\text{Cu}_3\text{O}_{7-x}$ superconductor: tetragonal and orthorhombic forms having very close lengths of the axis. CrystEngComm, 2022, 24, 3807-3811.	2.6	1
93	In Situ Infrared Spectroscopic Study on Liquid Crystalline Phase Formation of a Random Copolyester Consisting of 60 mol% p-Hydroxybenzoic Acid/40 mol% Ethylene Terephthalate. Polymer Journal, 1999, 31, 375-379.	2.7	0
94	Development of Ultra-Soft X-ray Spectrometer for Electron Probe Microanalysis. Microscopy and Microanalysis, 2006, 12, 58-59.	0.4	0
95	The Non-destructive Chemical State Analysis of Al-Cu Intermetallic Compound by Ultra-soft X-ray Spectrometer with Al L-alpha.. Microscopy and Microanalysis, 2007, 13, .	0.4	0
96	In-Situ Observation of the Reaction Between Iron and Carbon in TEM. Microscopy and Microanalysis, 2009, 15, 720-721.	0.4	0
97	Synchrotron Microscopic Fourier Transform Infrared Spectroscopy Analyses of Biogenic Guanine Crystals Along Axes of Easy Magnetization. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	0
98	In situ solid-state NMR of a magnetically oriented microcrystal suspension. Journal of Magnetic Resonance, 2019, 309, 106618.	2.1	0
99	PROCESSING OF POLYMERIC MATERIALS UNDER MAGNETIC FIELDS. , 2005, , .		0