

Yohei Miwa

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

570
citations

686830

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642321

23
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31
all docs

31
docs citations

31
times ranked

628
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic ionic crosslinks enable high strength and ultrastretchability in a single elastomer. <i>Communications Chemistry</i> , 2018, 1, .	2.0	129
2	A gas-plastic elastomer that quickly self-heals damage with the aid of CO ₂ gas. <i>Nature Communications</i> , 2019, 10, 1828.	5.8	57
3	5-N-Arylaminothiazoles as Highly Twisted Fluorescent Monocyclic Heterocycles: Synthesis and Characterization. <i>Journal of Organic Chemistry</i> , 2015, 80, 10742-10756.	1.7	40
4	A structural model of the chiral ω -m ³ -cubic phase. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3280-3284.	1.3	34
5	Glass Transition Temperature and T^2 Relaxation Temperature around Chain End of Polystyrene Determined by Site Specific Spin Labeling. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1282-1288.	1.2	27
6	Toward strong self-healing polyisoprene elastomers with dynamic ionic crosslinks. <i>Soft Matter</i> , 2020, 16, 3384-3394.	1.2	25
7	Dual role for alkali metal cations in enhancing the low-temperature radical polymerization of N,N-dimethylacrylamide. <i>Polymer Chemistry</i> , 2015, 6, 2054-2064.	1.9	24
8	<i>N,N</i> -Diarylthiazol-5-amines: Structure-Specific Mechanofluorochromism and White Light Emission in the Solid State. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 927-935.	2.0	23
9	Subnanoscopic Mapping of Glass Transition Temperature around Ionic Multiplets in Sodium-Neutralized Poly(ethylene- <i>co</i> -methacrylic acid) Ionomer. <i>Macromolecules</i> , 2013, 46, 5232-5237.	2.2	22
10	Novel and Accurate Method for Determination of Glass Transition Temperature of Spin-Labeled Polymer by ESR Microwave Power Saturation. <i>Macromolecules</i> , 2009, 42, 6141-6146.	2.2	21
11	Mirror symmetry breaking by mixing of equimolar amounts of two gyroid phase-forming achiral molecules. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17341-17344.	1.3	20
12	Syndiotactic- and heterotactic-specific radical polymerization of N-n-propylmethacrylamide complexed with alkali metal ions. <i>Polymer Chemistry</i> , 2015, 6, 4927-4939.	1.9	15
13	Autonomous self-healing polyisoprene elastomers with high modulus and good toughness based on the synergy of dynamic ionic crosslinks and highly disordered crystals. <i>Polymer Chemistry</i> , 2020, 11, 6549-6558.	1.9	15
14	FT-IR Study on Liquid Crystal Phase Transitions of Thermotropic Hydrogen-Bonded Cubic Mesogens, 1,2-Bis(4- <i>alkoxybenzoyl</i>)hydrazines (BABH- <i>n</i>) and 4- <i>Alkoxy-3-nitrobiphenyl-4-carboxylic acid</i> (ANBC- <i>n</i>): Spectroscopic Evidence for Quasibinary Picture Model. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10131-10137.	1.2	13
15	Pyridinium 5-aminothiazoles: specific photophysical properties and vapochromism in halogenated solvents. <i>RSC Advances</i> , 2017, 7, 18132-18135.	1.7	13
16	Stabilization of the bicontinuous cubic phase in siloxane-terminated mesogens, 1,2-bis[4-(<i>n</i> -oligodimethylsiloxyl)alkoxy]benzoyl]hydrazine. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9013-9020.	1.3	12
17	Simple and Highly Sensitive Measurement Method for Detection of Glass Transition Temperatures of Polymers: Application of ESR Power Saturation Phenomenon with Conventional Spin-Probe Technique. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9277-9284.	1.2	11
18	Systematic exploitation of thermotropic bicontinuous cubic phase families from 1,2-bis(aryloyl)hydrazine-based molecules. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7953-7961.	1.3	11

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19	Discotic liquid crystals of transition metal complexes 51: Synthesis and mesomorphism of flat-pumpkin-shaped phthalocyanine-fullerene dyads. <i>Journal of Porphyrins and Phthalocyanines</i> , 2014, 18, 856-868.	0.4	8
20	Optical Switching between Liquid-Crystalline Assemblies with Different Structural Symmetries and Molecular Orders. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 1652-1659.	2.0	8
21	The effects of local glass transition temperatures of ionic core-shell structures on the tensile behavior of sodium-neutralized poly(ethylene-co-methacrylic acid) ionomer/lauric acid blends. <i>Polymer</i> , 2018, 148, 303-309.	1.8	8
22	Thermally induced cationic polymerization of isobutyl vinyl ether in toluene in the presence of solvate ionic liquid. <i>Polymer Chemistry</i> , 2018, 9, 1421-1429.	1.9	7
23	Effects of fatty acids having different alkyl tail lengths on rigidity of the shell region surrounding an ionic core and mechanical properties of poly(ethylene-co-methacrylic acid) ionomer/fatty acid blends. <i>Polymer</i> , 2020, 197, 122495.	1.8	5
24	Effect of alkali metal cations on network rearrangement in polyisoprene ionomers. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 17042-17049.	1.3	5
25	Molecular design of anti-spindle-like molecules by use of siloxanyl terminals for a thermotropic bicontinuous cubic phase. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 10132-10141.	1.3	4
26	Design and basic properties of polyester vitrimers combined with an ionomer concept. <i>Molecular Systems Design and Engineering</i> , 2021, 6, 234-241.	1.7	4
27	Rapid Stretching Vibration at the Polymer Chain End. <i>ACS Macro Letters</i> , 2014, 3, 126-129.	2.3	3
28	Effects of the lateral substituent on the cubic phase formation of two analogous compounds, 4- ¹ -n-hexadecyloxy-3- ¹ -cyanobiphenyl-4-carboxylic acid (ACBC-16) and its 3- ¹ -nitro compound (ANBC-16). <i>Liquid Crystals</i> , 2015, 42, 143-157.	0.9	3
29	Stabilization of Bicontinuous Cubic Phase and Its Two-sided Nature Produced by Use of Siloxane Tails and Introduction of Molecular Nonsymmetry. <i>Chemistry - A European Journal</i> , 2021, 27, 10293-10302.	1.7	2
30	Evaluation for the actuation performance of dielectric elastomer actuator using polyisoprene elastomer with dynamic ionic crosslinks. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 113143.	2.0	1