

Igors Sics

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#	Paper	IF	Citations
57	Structure Development during Shear Flow-Induced Crystallization of i-PP: In-Situ Small-Angle X-ray Scattering Study. <i>Macromolecules</i> , 2000 , 33, 9385-9394	5.5	434
56	On the structure and morphology of polyvinylidene fluoride/nanoclay nanocomposites. <i>Polymer</i> , 2006 , 47, 1678-1688	3.9	246
55	Orientation and Crystallization of Natural Rubber Network As Revealed by WAXD Using Synchrotron Radiation. <i>Macromolecules</i> , 2004 , 37, 3299-3309	5.5	231
54	New Insights into Structural Development in Natural Rubber during Uniaxial Deformation by In Situ Synchrotron X-ray Diffraction. <i>Macromolecules</i> , 2002 , 35, 6578-6584	5.5	213
53	Low Percolation Threshold in Nanocomposites Based on Oxidized Single Wall Carbon Nanotubes and Poly(butylene terephthalate). <i>Macromolecules</i> , 2004 , 37, 7669-7672	5.5	183
52	Shear-Induced Crystallization Precursor Studies in Model Polyethylene Blends by in-Situ Rheo-SAXS and Rheo-WAXD. <i>Macromolecules</i> , 2004 , 37, 4845-4859	5.5	182
51	Confinement Size Effect on Crystal Orientation Changes of Poly(ethylene oxide) Blocks in Poly(ethylene oxide)-b-polystyrene Diblock Copolymers. <i>Macromolecules</i> , 2004 , 37, 3689-3698	5.5	124
50	Perforated layer structures in liquid crystalline rod-coil block copolymers. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15481-90	16.4	119
49	Mechanism of strain-induced crystallization in filled and unfilled natural rubber vulcanizates. <i>Journal of Applied Physics</i> , 2005 , 97, 103529	2.5	116
48	Molecular orientation and structural development in vulcanized polyisoprene rubbers during uniaxial deformation by in situ synchrotron X-ray diffraction. <i>Polymer</i> , 2003 , 44, 6003-6011	3.9	103
47	Deformation-Induced Phase Transition and Superstructure Formation in Poly(ethylene terephthalate). <i>Macromolecules</i> , 2005 , 38, 91-103	5.5	101
46	Crystallization-Induced Undulated Morphology in Polystyrene-b-Poly(L-lactide) Block Copolymer. <i>Macromolecules</i> , 2004 , 37, 5985-5994	5.5	96
45	Comparison of poly(ethylene oxide) crystal orientations and crystallization behaviors in nano-confined cylinders constructed by a poly(ethylene oxide)-b-polystyrene diblock copolymer and a blend of poly(ethylene oxide)-b-polystyrene and polystyrene. <i>Polymer</i> , 2006 , 47, 5457-5466	3.9	84
44	Probing the Nature of Strain-Induced Crystallization in Polyisoprene Rubber by Combined Thermomechanical and In Situ X-ray Diffraction Techniques. <i>Macromolecules</i> , 2005 , 38, 7064-7073	5.5	78
43	Thermally induced phase transitions and morphological changes in organoclays. <i>Langmuir</i> , 2004 , 20, 3744-58	4.5	76
42	Effect of Network-Chain Length on Strain-Induced Crystallization of NR and IR Vulcanizates. <i>Rubber Chemistry and Technology</i> , 2004 , 77, 711-723	1.7	75
41	Structural formation of amorphous poly(ethylene terephthalate) during uniaxial deformation above glass temperature. <i>Polymer</i> , 2004 , 45, 905-918	3.9	74

40	Strain-Induced Molecular Orientation and Crystallization in Natural and Synthetic Rubbers under Uniaxial Deformation by In-situ Synchrotron X-ray Study. <i>Rubber Chemistry and Technology</i> , 2004 , 77, 317-335	1.7	73
39	Polymorphism of isotactic polybutene-1 as revealed by microindentation hardness. Part II: correlations to microstructure. <i>Polymer</i> , 2003 , 44, 1641-1645	3.9	72
38	Comparison of crystallization kinetics in various nanoconfined geometries. <i>Polymer</i> , 2004 , 45, 2931-2939	3.9	71
37	Mechanism of Structural Formation by Uniaxial Deformation in Amorphous Poly(ethylene terephthalate) above the Glass Temperature. <i>Macromolecules</i> , 2003 , 36, 9275-9280	5.5	66
36	Lateral packing of mineral crystals in bone collagen fibrils. <i>Biophysical Journal</i> , 2008 , 95, 1985-92	2.9	62
35	In-Situ X-ray Scattering Studies of a Unique Toughening Mechanism in Surface-Modified Carbon Nanofiber/UHMWPE Nanocomposite Films. <i>Macromolecules</i> , 2005 , 38, 3883-3893	5.5	62
34	Orientation-induced crystallization in isotactic polypropylene melt by shear deformation. <i>Macromolecular Symposia</i> , 2002 , 185, 105-117	0.8	59
33	Molecular dynamics and microstructure development during cold crystallization in poly(ether-ether-ketone) as revealed by real time dielectric and x-ray methods. <i>Journal of Chemical Physics</i> , 2001 , 115, 3804-3813	3.9	57
32	Structure Evolution during Cyclic Deformation of an Elastic Propylene-Based EthylenePropylene Copolymer. <i>Macromolecules</i> , 2006 , 39, 3588-3597	5.5	56
31	Superstructure Evolution in Poly(ethylene terephthalate) during Uniaxial Deformation above Glass Transition Temperature. <i>Macromolecules</i> , 2006 , 39, 2909-2920	5.5	56
30	Structural developments in synthetic rubbers during uniaxial deformation by in situ synchrotron X-ray diffraction. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 956-964	2.6	54
29	New Insights into Lamellar Structure Development and SAXS/WAXD Sequence Appearance during Uniaxial Stretching of Amorphous Poly(ethylene terephthalate) above Glass Transition Temperature. <i>Macromolecules</i> , 2008 , 41, 2859-2867	5.5	51
28	Uniaxial deformation of an elastomer nanocomposite containing modified carbon nanofibers by in situ synchrotron X-ray diffraction. <i>Polymer</i> , 2005 , 46, 5103-5117	3.9	42
27	Molecular Weight and Crystallization Temperature Effects on Poly(ethylene terephthalate) (PET) Homopolymers, an Isothermal Crystallization Analysis. <i>Polymers</i> , 2014 , 6, 583-600	4.5	33
26	Crystallization of Polystyrene-block-[Syndiotactic Poly(propylene)] Block Copolymers from Confinement to Breakout. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 107-111	4.8	32
25	In-Situ Simultaneous Small- and Wide-Angle X-ray Scattering Study of Poly(ether ester) during Cold Drawing. <i>Macromolecules</i> , 2003 , 36, 4827-4832	5.5	31
24	Shear-Induced Orientation and Structure Development in Isotactic Polypropylene Melt Containing Modified Carbon Nanofibers. <i>Journal of Macromolecular Science - Physics</i> , 2006 , 45, 247-261	1.4	30
23	In-Situ X-ray Deformation Study of Fluorinated Multiwalled Carbon Nanotube and Fluorinated EthylenePropylene Nanocomposite Fibers. <i>Macromolecules</i> , 2006 , 39, 5427-5437	5.5	30

22	Small-angle X-ray scattering study of intramuscular fish bone: collagen fibril superstructure determined from equidistant meridional reflections. <i>Journal of Applied Crystallography</i> , 2008 , 41, 252-261	3.8	29
21	Probing Flow-Induced Precursor Structures in Blown Polyethylene Films by Synchrotron X-rays during Constrained Melting. <i>Macromolecules</i> , 2005 , 38, 5128-5136	5.5	29
20	Thermal stability of shear-induced precursor structures in isotactic polypropylene by rheo-X-ray techniques with couette flow geometry. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 3553-3570	2.6	28
19	Structure Development in Polymers during Fused Filament Fabrication (FFF): An in Situ Small- and Wide-Angle X-ray Scattering Study Using Synchrotron Radiation. <i>Macromolecules</i> , 2019 , 52, 9715-9723	5.5	26
18	Deformation behaviour during cold drawing of nanocomposites based on single wall carbon nanotubes and poly(ether ester) copolymers. <i>Polymer</i> , 2007 , 48, 3286-3293	3.9	24
17	Combined techniques of Raman spectroscopy and synchrotron two-dimensional x-ray diffraction for in situ study of anisotropic system: Example of polymer fibers under deformation. <i>Review of Scientific Instruments</i> , 2003 , 74, 3087-3092	1.7	22
16	Characterization, optimization and surface physics aspects of in situ plasma mirror cleaning. <i>Journal of Synchrotron Radiation</i> , 2014 , 21, 300-14	2.4	21
15	Trilayer Crystalline Lamellar Morphology under Confinement. <i>Macromolecules</i> , 2006 , 39, 2739-2742	5.5	21
14	In situ synchrotron SAXS/WAXD studies during melt spinning of modified carbon nanofiber and isotactic polypropylene nanocomposite. <i>Colloid and Polymer Science</i> , 2004 , 282, 802-809	2.4	18
13	Confined Discotic Liquid Crystalline Self-Assembly in a Novel Coil/Disk Triblock Oligomer. <i>Macromolecules</i> , 2005 , 38, 3386-3394	5.5	17
12	Small-angle X-ray study of the three-dimensional collagen/mineral superstructure in intramuscular fish bone. <i>Journal of Applied Crystallography</i> , 2007 , 40, s666-s668	3.8	16
11	The morphology and polymorphism of self-nucleated trigonal isotactic poly(1-butene) studied by synchrotron IR microspectroscopy. <i>CrystEngComm</i> , 2016 , 18, 816-828	3.3	15
10	Relationship between structure and dynamic mechanical properties of a carbon nanofiber reinforced elastomeric nanocomposite. <i>Polymer</i> , 2006 , 47, 6797-6807	3.9	15
9	Reversible de-intercalation and intercalation induced by polymer crystallization and melting in a poly(ethylene oxide)/organoclay nanocomposite. <i>Langmuir</i> , 2005 , 21, 5672-6	4	14
8	Phase Transitions and Honeycomb Morphology in an Incompatible Blend of Enantiomeric Polylactide Block Copolymers. <i>Macromolecules</i> , 2006 , 39, 8203-8206	5.5	14
7	Lattice Deformation of Strain-induced Crystallites in Carbon-filled Natural Rubber. <i>Chemistry Letters</i> , 2004 , 33, 220-221	1.7	13
6	The role of high molecular weight chains in flow-induced crystallization precursor structures. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, S2421-S2436	1.8	11
5	Nanometer accuracy with continuous scans at the ALBA-NOM 2016 ,		3

4	Order and Segmental Mobility in Crystallizing Polymers 2007 , 435-456		2
3	Epitaxial Phase Transformation between Cylindrical and Double Gyroid Mesophases. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 856, BB2.3.1		1
2	Deflectometry encoding the measured angle in a time-dependent intensity signal. <i>Review of Scientific Instruments</i> , 2019 , 90, 021707	1.7	1
1	Probing structure development in Poly(vinylidene Fluoride) during μ perando μ -D printing by small and wide angle X-ray scattering. <i>Polymer</i> , 2022 , 249, 124827	3.9	0