

Kap Jin Kim

List of Publications by Year in descending order

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3,274
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#	ARTICLE	IF	CITATIONS
1	Origin of Piezoelectricity in an Electrospun Poly(vinylidene fluoride-trifluoroethylene) Nanofiber Web-Based Nanogenerator and Nano-Pressure Sensor. <i>Macromolecular Rapid Communications</i> , 2011, 32, 831-837.	3.9	316
2	Printable Ferroelectric PVDF/PMMA Blend Films with Ultralow Roughness for Low Voltage Non-Volatile Polymer Memory. <i>Advanced Functional Materials</i> , 2009, 19, 2812-2818.	14.9	239
3	Simple Synthesis of Palladium Nanoparticles, β -Phase Formation, and the Control of Chain and Dipole Orientations in Palladium-Doped Poly(vinylidene fluoride) Thin Films. <i>Langmuir</i> , 2012, 28, 10310-10317.	3.5	154
4	Preferential formation of electroactive crystalline phases in poly(vinylidene fluoride)/organically modified silicate nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 2173-2187.	2.1	147
5	Spin cast ferroelectric beta poly(vinylidene fluoride) thin films via rapid thermal annealing. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	141
6	Irreversible extinction of ferroelectric polarization in P(VDF-TrFE) thin films upon melting and recrystallization. <i>Applied Physics Letters</i> , 2006, 88, 242908.	3.3	107
7	Ordered Ferroelectric PVDF-TrFE Thin Films by High Throughput Epitaxy for Nonvolatile Polymer Memory. <i>Macromolecules</i> , 2008, 41, 8648-8654.	4.8	105
8	Localized Pressure-Induced Ferroelectric Pattern Arrays of Semicrystalline Poly(vinylidene fluoride) by Microimprinting. <i>Advanced Materials</i> , 2007, 19, 581-586.	21.0	100
9	Direct Preparation of Nanoscale Thin Films of Poly(vinylidene fluoride) Containing β -Crystalline Phase by Heat-Controlled Spin Coating. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 2516-2526.	2.2	96
10	Release of albumin from chitosan-coated pectin beads in vitro. <i>International Journal of Pharmaceutics</i> , 2003, 250, 371-383.	5.2	92
11	Nanofiber Web Textile Dry Electrodes for Long-Term Biopotential Recording. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2013, 7, 204-211.	4.0	89
12	Annealing effect upon chain orientation, crystalline morphology, and polarizability of ultra-thin P(VDF-TrFE) film for nonvolatile polymer memory device. <i>Polymer</i> , 2010, 51, 6319-6333.	3.8	80
13	Piezoelectric properties of electrospun poly(L-lactic acid) nanofiber web. <i>Materials Letters</i> , 2015, 148, 58-62.	2.6	77
14	Factors determining the formation of the β crystalline phase of poly(vinylidene fluoride) in poly(vinylidene fluoride)-poly(methyl methacrylate) blends. <i>Vibrational Spectroscopy</i> , 1995, 9, 147-159.	2.2	67
15	Metal Salt-Induced Ferroelectric Crystalline Phase in Poly(vinylidene fluoride) Films. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1316-1321.	3.9	66
16	Infrared spectroscopic analysis of poly(trimethylene terephthalate). <i>Polymer</i> , 2001, 42, 1023-1033.	3.8	59
17	Curie transition, ferroelectric crystal structure, and ferroelectricity of a VDF/TrFE(75/25) copolymer 1. The effect of the consecutive annealing in the ferroelectric state on curie transition and ferroelectric crystal structure. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 2435-2444.	2.1	56
18	Phase Diagram and Photopolymerization Behavior of Mixtures of UV-Curable Multifunctional Monomer and Low Molar Mass Nematic Liquid Crystal. <i>Macromolecules</i> , 1998, 31, 6806-6812.	4.8	54

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19	Molecular and Crystalline Microstructure of Ferroelectric Poly(vinylidene fluoride) on Au Substrates. <i>Macromolecules</i> , 2008, 41, 109-119.	4.8	50
20	Curie transition, ferroelectric crystal structure and ferroelectricity of a VDF/TrFE (75/25) copolymer: 2. The effect of poling on Curie transition and ferroelectric crystal structure. <i>Polymer</i> , 1997, 38, 4881-4889.	3.8	48
21	Infrared spectroscopic studies on crystallization and Curie transition behavior of ultrathin films of P(VDF/TrFE) (72/28). <i>Vibrational Spectroscopy</i> , 2006, 41, 1-13.	2.2	47
22	Effect of thickness on the crystallinity and Curie transition behavior in P(VDF/TrFE) (72/28) copolymer thin films using FTIR-transmission spectroscopy. <i>Vibrational Spectroscopy</i> , 2009, 49, 101-109.	2.2	43
23	A NOVEL PIEZOELECTRIC PVDF FILM-BASED PHYSIOLOGICAL SENSING BELT FOR A COMPLEMENTARY RESPIRATION AND HEARTBEAT MONITORING SYSTEM. <i>Integrated Ferroelectrics</i> , 2009, 107, 53-68.	0.7	42
24	Fabrication of micropatterned ferroelectric gamma poly(vinylidene fluoride) film for non-volatile polymer memory. <i>Journal of Materials Chemistry</i> , 2011, 21, 3619.	6.7	41
25	Crystalline Structure and Ferroelectric Response of Poly(vinylidene fluoride)/Organically Modified Silicate Thin Films Prepared by Heat Controlled Spin Coating. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 951-960.	2.2	40
26	Polymeric gate dielectric interlayer of cross-linkable poly(styrene-r-methylmethacrylate) copolymer for ferroelectric PVDF-TrFE field effect transistor memory. <i>Organic Electronics</i> , 2009, 10, 849-856.	2.6	40
27	Influence of the organic electrolyte and anodization conditions on the preparation of well-aligned TiO ₂ nanotube arrays in dye-sensitized solar cells. <i>Solar Energy</i> , 2011, 85, 1551-1559.	6.1	35
28	Piezoelectric characteristics of electrospun PVDF as a function of phase-separation temperature and metal salt content. <i>Macromolecular Research</i> , 2017, 25, 981-988.	2.4	32
29	Effect of P(MMA-co-MAA) compatibilizer on the miscibility of nylon 6/PVDF blends. <i>European Polymer Journal</i> , 2003, 39, 1249-1265.	5.4	30
30	Comparative electrical bistable characteristics of ferroelectric poly(vinylidene fluoride) on SiO ₂ /Si substrates. <i>Physics Letters</i> , 2008, 93, 182902.	3.3	30
31	Mechanism and kinetics of adiabatic anionic polymerization of ϵ -caprolactam in the presence of various activators. <i>Journal of Applied Polymer Science</i> , 1995, 57, 1347-1358.	2.6	28
32	UCST-Type Phase Separation and Crystallization Behavior in Poly(vinylidene fluoride)/Poly(methyl methacrylate) Blends. <i>Macromolecules</i> , 2008, 41, 109-119.	4.8	28
33	An infra-red spectroscopic study of structural reorganization of a uniaxially drawn VDF/TrFE copolymer in an electric field. <i>Polymer</i> , 1994, 35, 3612-3618.	3.8	27
34	Kinetics of adiabatic anionic copolymerization of ϵ -caprolactam in the presence of various activators. <i>Journal of Applied Polymer Science</i> , 1997, 66, 1195-1207.	2.6	27
35	In-situ Synthesis and Characterization of Polyamide 6/POSS Nanocomposites. <i>Macromolecular Symposia</i> , 2007, 249-250, 295-302.	0.7	27
36	Electrospun poly(vinylidene fluoride)-poly(octafluoropentyl acrylate) blend based piezocapacitive pressure sensors. <i>Macromolecular Research</i> , 2016, 24, 670-674.	2.4	26

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37	Heartbeat Monitoring Technique Based on Corona-Poled PVDF Film Sensor for Smart Apparel Application. <i>Solid State Phenomena</i> , 2007, 124-126, 299-302.	0.3	25
38	Grazing incidence reflection absorption Fourier transform infrared (GIRA-FTIR) spectroscopic studies on the ferroelectric behavior of poly(vinylidene fluoride-trifluoroethylene) ultrathin films. <i>Polymer</i> , 2005, 46, 12410-12415.	3.8	24
39	Electrospun Polyvinylidene Fluoride-Polyoctafluoropentyl Acrylate-Hydroxyapatite Blend Based Piezoelectric Pressure Sensors. <i>Macromolecular Research</i> , 2019, 27, 743-749.	2.4	24
40	Mechanism of glycolysis of nylon 6,6 and its model compound by ethylene glycol. <i>Polymer Degradation and Stability</i> , 2006, 91, 1545-1555.	5.8	23
41	Recovery of remanent polarization of poly(vinylidene fluoride-co-trifluoroethylene) thin film after high temperature annealing using topographically nanostructured aluminium bottom electrode. <i>Applied Physics Letters</i> , 2007, 90, 222903.	3.3	23
42	FTIR studies on polymorphic control of PVDF ultrathin films by heat-controlled spin coater. <i>Journal of Materials Science</i> , 2016, 51, 3619-3627.	3.7	21
43	The evaluation of the surface characteristic of the PET film and fabric treated with PEG-diamine. <i>Journal of Applied Polymer Science</i> , 1986, 32, 6017-6024.	2.6	20
44	Toughening and phase separation behavior of nylon 6-PEG block copolymers and in situ nylon 6-PEG blend via in situ anionic polymerization. <i>Journal of Applied Polymer Science</i> , 1999, 73, 1285-1303.	2.6	20
45	Transition from Nanorod to Nanotube of Poly(vinylidene trifluoroethylene) Ferroelectric Nanofiber. <i>Macromolecules</i> , 2013, 46, 3067-3073.	4.8	19
46	Flexible electrode belt for EIT using nanofiber web dry electrodes. <i>Physiological Measurement</i> , 2012, 33, 1603-1616.	2.1	18
47	Phase Separation and Crystallization Behavior of Poly(vinylidene fluoride)/Poly(1,4-butylene adipate) Blends under an Electric Field. <i>Macromolecules</i> , 2008, 41, 3598-3604.	4.8	16
48	Spectroscopic studies on the effect of field strength upon the curie transition of a VDF/TrFE copolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1993, 31, 1555-1566.	2.1	15
49	Highly precise nanofiber web-based dry electrodes for vital signal monitoring. <i>RSC Advances</i> , 2016, 6, 40045-40057.	3.6	15
50	Multilayered Fabric Pressure Sensor for Real-Time Piezo-Impedance Imaging of Pressure Distribution. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 565-572.	4.7	15
51	Ultrathin Ferroelectric P(VDF/TrFE) Copolymer Film in Low-Cost Non-Volatile Data Storage Applications. <i>Macromolecular Symposia</i> , 2007, 249-250, 13-20.	0.7	13
52	Synthesis and characterization of poly(trimethylene terephthalate)/polyhedral oligomeric silsesquioxanes nanocomposites. <i>Polymer Composites</i> , 2008, 29, 894-901.	4.6	13
53	Hyperbranched polyester as a crosslinker in polyurethane formation: real-time monitoring using in situ FTIR. <i>Polymer Bulletin</i> , 2016, 73, 2867-2888.	3.3	13
54	Curie transition and piezoelectricity of the blends of a ferroelectric VDF/TrFE copolymer and PMMA. <i>Journal of Applied Polymer Science</i> , 1993, 47, 1781-1789.	2.6	12

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73	Cyclodextrin-Based Nanocomplexes for Sustained Delivery of Human Growth Hormone. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7306-7311.	0.9	7
74	Uniaxially drawn polylactic acid film based physiological sensor for monitoring sleeping parameters. <i>Fibers and Polymers</i> , 2017, 18, 1898-1905.	2.1	7
75	Degradation mechanism and morphological change of PET by PEG ⁴ -diamine. <i>Journal of Applied Polymer Science</i> , 1989, 37, 2855-2871.	2.6	6
76	Poly(vinylidene fluoride)/poly(ethylene-co-vinyl acetate) (20/80) blend. I. Miscibility and crystallization behavior. <i>Fibers and Polymers</i> , 2007, 8, 237-242.	2.1	6
77	Spinodal phase separation and isothermal crystallization behavior in blends of VDF/TrFE(75/25) copolymer and poly(1,4-butylene adipate) (I). <i>Fibers and Polymers</i> , 2003, 4, 188-194.	2.1	5
78	Novel Hybrid Pressure Sensor Based on Electrospun Spandex-Polyvinylidene Fluoride Composite Nanofiber Webs. <i>Fibers and Polymers</i> , 2020, 21, 2962-2975.	2.1	5
79	Poly(vinylidene fluoride)/poly(ethylene-co-vinyl acetate) (20/80) blend. II. Crystalline structure and morphology. <i>Fibers and Polymers</i> , 2007, 8, 335-346.	2.1	4
80	Effect of Dissolved Inorganic Salts on the Enthalpy of Mixing of the Ethanol + Pyridine System at 303.15 K. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 3567-3571.	1.9	4
81	Molecular chaperone-like hyaluronic acid nanoparticles: Implications as the carrier for protein delivery systems. <i>Macromolecular Research</i> , 2012, 20, 1007-1010.	2.4	4
82	Dyeing behavior of chemically modified poly(1,4-phenylene sulfide) fiber towards disperse, anionic, and cationic dyes. <i>Fibers and Polymers</i> , 2014, 15, 1168-1174.	2.1	4
83	Preparation and Characterization of Cotton Linter Based Regenerated Cellulose Fiber by Dry Jet-wet Spinning. <i>Textile Science and Engineering</i> , 2013, 50, 25-34.	0.4	4
84	Piezoelectric sensor based on electrospun poly(vinylidene fluoride)/sulfonated poly(1,4-phenylene) Tj ETQqO 0 0 rgBT /Overlock 10 Tf	2.6	4
85	Theoretical analysis of the melt spinning process of poly(trimethylene terephthalate) fibers. <i>Fibers and Polymers</i> , 2007, 8, 507-511.	2.1	3
86	Lifetime Prediction of High Tenacity Polyester Yarns for Hydrolytic Degradation Used for Soil Reinforcement. <i>Fibers and Polymers</i> , 2020, 21, 1663-1668.	2.1	3
87	Effect of Dissolved Cadmium Chloride and Ammonium Chloride Salts on the Enthalpy of Mixing of the Methanol + Benzene System at 303.15 K. <i>Chinese Journal of Chemical Engineering</i> , 2010, 18, 995-999.	3.5	2
88	Alkoxyalkanol Modified Ti(OCHMe ₂) ₄ : Synthesis and Characterization of Novel [(OPr _i) _{4-n} Ti(OC ₂ H ₄ OR) _n]. <i>Advanced Materials Research</i> , 0, 584, 415-419.	0.3	2
89	Integration of piezo-capacitive and piezo-electric nanoweb based pressure sensors for imaging of static and dynamic pressure distribution. , 2017, 2017, 21-24.		2
90	Respiration Monitoring Using an Electromagnetic Interference Shielding PVDF Film-Embedded Elastic Belt. <i>Textile Science and Engineering</i> , 2012, 49, 392-401.	0.4	2

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91	Effect of Thermal Cycling on the Ferroelectric Characteristics of Vinylidene Fluoride-Trifluoroethylene Copolymer Thin Films. <i>Advanced Materials Research</i> , 2012, 584, 201-204.	0.3	1
92	Synthetic Studies and Structural Aspects of some Metallacyclic Derivatives of Titanium (IV) - Better Precursors for Titania. <i>Advanced Materials Research</i> , 2012, 584, 411-414.	0.3	1
93	New Evaluation Methods of Average Molecular Weight and the Degree of Branching of Poly(1,4-phenylene sulfide) Samples through Their Partial Sulfonation. <i>Fibers and Polymers</i> , 2022, 23, 900-913.	2.1	1
94	Degradation of Nylon 6,6 and Glass Fiber Reinforced Nylon 6,6 by Aqueous Solutions of Ethylene Glycol and Calcium Chloride. <i>ACS Symposium Series</i> , 2007, , 103-113.	0.5	0
95	Fabrication and Electrical Studies of P(VDF/TrFE)(72/28) Copolymer based Non-Volatile Memory Devices as a Function of Varying Device Structures. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1071, 1.	0.1	0