

Si Chen

List of Publications by Year in descending order

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66
papers

1,173
citations

361413

20
h-index

454955

30
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67
all docs

67
docs citations

67
times ranked

1078
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, properties and applications of well-designed hybrid polymers based on polyhedral oligomeric silsesquioxane. <i>Polymer International</i> , 2022, 71, 379-392.	3.1	16
2	Highly anisotropic thermal conductivity and electrical insulation of nanofibrillated cellulose/Al ₂ O ₃ @rGO composite films: effect of the particle size. <i>Nanotechnology</i> , 2022, 33, 135711.	2.6	8
3	An on-demand and on-site shape-designable mineralized hydrogel with calcium supply and inflammatory warning properties for cranial repair applications. <i>Journal of Materials Chemistry B</i> , 2022, 10, 3541-3549.	5.8	4
4	Achieving simultaneously toughening and flame-retardant modification of poly(lactic acid) by in-situ formed cross-linked polyurethane and reactive blending with ammonium polyphosphate. <i>Journal of Materials Science</i> , 2022, 57, 5645-5657.	3.7	14
5	High impact strength modified Melamine-Formaldehyde resin with special building blocks-structure. <i>Polymer Engineering and Science</i> , 2022, 62, 2165-2175.	3.1	2
6	Cellulose Nanofiber/Graphene Nanoplatelet/MXene Nanocomposites for Enhanced Electromagnetic Shielding and High In-Plane Thermal Conductivity. <i>ACS Applied Nano Materials</i> , 2022, 5, 7217-7227.	5.0	45
7	A true color palette: binary metastable photonic pigments. <i>Nanoscale Horizons</i> , 2022, 7, 890-898.	8.0	6
8	The preparation and mechanism of permanently flame retardancy, antistatic, good toughness and high transparent poly(methyl methacrylate). <i>Polymers for Advanced Technologies</i> , 2021, 32, 1230-1238.	3.2	15
9	An injectable double-crosslinking iodinated composite hydrogel as a potential radioprotective spacer with durable imaging function. <i>Journal of Materials Chemistry B</i> , 2021, 9, 3346-3356.	5.8	6
10	Lightweight and high-strength GMT/PEFP/GNP composites with absorb-dominated electromagnetic interference shielding property. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 25863-25875.	2.2	10
11	Driving force balance the identity card of supramolecules in a self-sorting multicomponent assembly system. <i>Soft Matter</i> , 2021, 17, 153-159.	2.7	1
12	Contradiction or Unity? Thermally Stable Fluorescent Probe for In Situ Fast Identification of Self-sort or Co-assembly of Multicomponent Gelators with Sensitive Properties. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8774-8781.	8.0	7
13	A new method for designing bis-uracil derivatives as highly efficient and transparent PVC thermal stabilizer with excellent migration resistance. <i>Polymer Degradation and Stability</i> , 2021, 186, 109504.	5.8	11
14	Green cinnamaldehyde and thymol modified zinc oxide with double synergistic antibacterial effects in polypropylene. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50911.	2.6	5
15	Application of solubility parameters in the preparation of PMMA with permanent antistatic, high toughness, and excellent optical properties. <i>Polymers for Advanced Technologies</i> , 2021, 32, 3750-3758.	3.2	11
16	Super-Low-Addition Biobased Flame Retardant Dedicated to Polylactic Acid through Ionic Reaction between Phytic Acid and Taurine. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4579-4586.	4.4	24
17	Effect of triphenyl phosphite as a reactive compatibilizer on the properties of poly(L-lactic acid)/poly(butylene succinate) blends. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48646.	2.6	13
18	Nanofibrillated Cellulose/MgO@rGO composite films with highly anisotropic thermal conductivity and electrical insulation. <i>Chemical Engineering Journal</i> , 2020, 392, 123714.	12.7	65

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19	Active Role of Water in the Hydration of Macromolecules with Ionic End Group for Hydrophobic Effect-Caused Assembly. <i>Macromolecules</i> , 2020, 53, 6842-6849.	4.8	9
20	Biaxial stretchable liquid crystal light scattering display based on uniform energy dissipation in non-oriented assembly of gel networks. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13349-13356.	5.5	5
21	A fully bio-based intumescent flame retardant for poly(butylene succinate). <i>Materials Chemistry and Physics</i> , 2020, 252, 123222.	4.0	34
22	Surface chain dependent arrangement and self-assembly of polyhedral oligomeric silsesquioxane for supramolecular gels. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 603, 125146.	4.7	0
23	Simultaneously enhanced fracture toughness and flame-retardant property of poly(lactide) Tj ETQq1 1 0.784314 rgB Polymer International, 2020, 69, 985-994.	3.1	8
24	Chirality on dendrimers: a roller booster of the molecule-level self-sorting assembly in two-component supramolecular gel system. <i>Chemical Communications</i> , 2020, 56, 2983-2986.	4.1	13
25	Peripheral groups of polyhedral oligomeric silsesquioxane (POSS) core-based dendrimers: a crucial factor for higher-level supra-architecture building. <i>Nanoscale</i> , 2020, 12, 12146-12153.	5.6	2
26	Tensile properties, thermal stability, and the mechanism of PVC stabilized with zinc and calcium oxolinic complexes. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47004.	2.6	14
27	The Special "Morse Code" between Solvent Polarity and Morphology Flexibility in a POSS "Dendrimer Supramolecular System. <i>Chemistry - A European Journal</i> , 2019, 25, 12098-12104.	3.3	4
28	A new theory of "two-step stabilization mechanism" for triazole-based zinc-containing complex as thermal stabilizer for poly(vinyl chloride). <i>Polymer Degradation and Stability</i> , 2019, 167, 86-93.	5.8	10
29	Electroresponsive Stretchable Liquid-Crystal Device with Deformable Gel Network. <i>Advanced Electronic Materials</i> , 2019, 5, 1900373.	5.1	16
30	A novel double agent of triazole-based zinc-containing complex which constituted Zn/Zn stabilizer system with zinc stearate as thermal stabilizer for poly(vinyl chloride). <i>Polymer Degradation and Stability</i> , 2019, 168, 108953.	5.8	8
31	Widely Applicable AIE Chemosensor for On-Site Fast Detection of Drugs Based on the POSS-Core Dendrimer with the Controlled Self-Assembly Mechanism. <i>Langmuir</i> , 2019, 35, 2649-2654.	3.5	21
32	A "one stop" thermal stabilizer, zinc arginine complex, with excellent comprehensive thermal stability effect on poly(vinyl chloride). <i>Polymer Degradation and Stability</i> , 2019, 167, 58-66.	5.8	11
33	Stability, antibacterial ability, and inhibition of "zinc burning" of amitrole as thermal stabilizer for transparent poly(vinyl chloride). <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 437-446.	3.6	10
34	Bis-uracil based high efficient heat stabilizers used in super transparent soft poly (vinyl chloride). <i>Polymer Degradation and Stability</i> , 2018, 149, 143-151.	5.8	34
35	Stability, mechanism and unique "zinc burning" inhibition synergistic effect of zinc dehydroacetate as thermal stabilizer for poly(vinyl chloride). <i>Polymer Degradation and Stability</i> , 2018, 152, 228-234.	5.8	27
36	A lignin-based flame retardant for improving fire behavior and biodegradation performance of polybutylene succinate. <i>Polymers for Advanced Technologies</i> , 2018, 29, 3142-3150.	3.2	41

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37	Effect of the composition and degree of crosslinking on the properties of poly(lactide) Tj ETQq1 1 0.784314 rgBT /Overlock 10, Tf 50 142	3.1	18
38	Permanently antistatic and high transparent PMMA terpolymer: Compatilizer, antistatic agent, and the antistatic mechanism. <i>Polymers for Advanced Technologies</i> , 2018, 29, 1788-1794.	3.2	13
39	Body Temperature Controlled Optical and Thermal Information Storage Light Scattering Display with Fluorescence Effect and High Mechanical Strength. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11924-11932.	8.0	24
40	Preparation of highly conductive composites with segregated structure based on polyamide-6 and reduced graphene oxide. <i>Materials Letters</i> , 2017, 190, 71-74.	2.6	26
41	Self-Assembly of a Strong Polyhedral Oligomeric Silsesquioxane Core-Based Aspartate Derivative Dendrimer Supramolecular Gelator in Different Polarity Solvents. <i>Langmuir</i> , 2017, 33, 13332-13342.	3.5	17
42	Stronger Intermolecular Forces or Closer Molecular Spacing? Key Impact Factor Research of Gelator Self-Assembly Mechanism. <i>Langmuir</i> , 2017, 33, 14389-14395.	3.5	13
43	Super-toughened poly(lactide) fabricated via reactive blending and interfacial compatibilization. <i>Polymer International</i> , 2016, 65, 1187-1194.	3.1	19
44	Hierarchical NiCo ₂ S ₄ Nanotube@NiCo ₂ S ₄ Nanosheet Arrays on Ni Foam for High-Performance Supercapacitors. <i>Chemistry - an Asian Journal</i> , 2016, 11, 248-255.	3.3	100
45	High transparency and toughness PMMA nanocomposites toughened by self-assembled 3D loofah-like gel networks: fabrication, mechanism, and insight into the in situ polymerization process. <i>RSC Advances</i> , 2016, 6, 34685-34691.	3.6	21
46	Highly efficient and antibacterial zinc norfloxacin thermal stabilizer for poly(vinyl chloride). <i>RSC Advances</i> , 2016, 6, 97491-97502.	3.6	25
47	Multiporous microstructure for enhancing the water absorption and swelling rate in poly(sodium) Tj ETQq1 1 0.784314 rgBT /Overlock 10, Tf 50 142 system. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	5
48	Elastomeric Light Emitting Polymer Enhanced by Interpenetrating Networks. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32504-32511.	8.0	38
49	Strong and fast-recovery organic/inorganic hybrid AuNPs-supramolecular gels based on loofah-like 3D networks. <i>Soft Matter</i> , 2016, 12, 957-964.	2.7	15
50	The key effect of the self-assembly mechanism of dendritic gelators: solubility parameters, generations and terminal effects. <i>RSC Advances</i> , 2015, 5, 35282-35290.	3.6	7
51	Topological structure influences on the gel formation process and mechanical properties of l-lysine based supramolecular gels. <i>RSC Advances</i> , 2015, 5, 101437-101443.	3.6	19
52	Effect of allantoin on the stabilization efficiency of Ca-Zn thermal stabilizers for poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10, Tf 50 142	3.6	24
53	Novel organic antibacterial thermal stabilizers for transparent poly(vinyl chloride). <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 1435-1444.	3.6	22
54	Stretchable light scattering display based on super strong liquid crystalline physical gels with special loofah-like 3D gel networks. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12026-12031.	5.5	28

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55	A novel foaming approach to prepare porous superabsorbent poly(sodium acrylic acid) resins. Journal of Applied Polymer Science, 2015, 132, .	2.6	7
56	High Toughness and Light Transmittance of PMMA Composite Prepared via <i>In-Situ</i> Polymerization with Incorporating Self-Assembled Dendritic Gel Networks. Journal of Macromolecular Science - Pure and Applied Chemistry, 2014, 51, 173-179.	2.2	4
57	Investigation of basic zinc cyanurate as a novel thermal stabilizer for poly(vinyl chloride) and its synergistic effect with calcium stearate. Polymer Degradation and Stability, 2014, 99, 211-218.	5.8	51
58	Loofah-like gel network formed by the self-assembly of a 3D radially symmetrical organic-inorganic hybrid gelator. Chemical Communications, 2014, 50, 7180.	4.1	37
59	Sonication induced morphological transformation between 3D gel network and globular structure in a two-component gelation system. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 452, 165-172.	4.7	16
60	Efficiency and mechanism for the stabilizing action of N,N'-bis(phenylcarbamoyl)alkyldiamines as thermal stabilizers and co-stabilizers for poly(vinyl chloride). Polymer Degradation and Stability, 2014, 105, 178-184.	5.8	24
61	Synthesis and application of uracil derivatives as novel thermal stabilizers for rigid poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	5.8	49
62	Mechanical Properties and Tensile Deformation Behavior of Polyamide 6/Maleated and Unmaleated Ethylene Propylene Diene Terpolymer/Nano-CaCO ₃ Ternary Composites. Journal of Macromolecular Science - Physics, 2013, 52, 797-811.	1.0	6
63	Fracture toughness of polyamide 6/maleated ethylene-propylene diene terpolymer rubber/nano calcium carbonate ternary composites according to essential work of fracture analysis. Journal of Applied Polymer Science, 2011, 120, 2971-2978.	2.6	7
64	Effect of Mixing Process and Morphologies on the Electrical Conductivity of PA6/EVA/CB Composites. Polymer-Plastics Technology and Engineering, 2011, 50, 533-538.	1.9	10
65	The Synthesis of Amide Dendritic Gelators and its Self-assembly Behavior in MMA. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 896-903.	2.2	6
66	Facile regulation of the electro-optical properties of liquid crystal gels by kinetics controlled hierarchy self-assembly. Polymer International, 0, , .	3.1	2