

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
g-index

67
all docs

67
docs citations

67
times ranked

1078
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Investigation of basic zinc cyanurate as a novel thermal stabilizer for poly(vinyl chloride) and its synergistic effect with calcium stearate. <i>Polymer Degradation and Stability</i> , 2014, 99, 211-218.	5.8	51
4	Synthesis and application of uracil derivatives as novel thermal stabilizers for rigid poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	5.8	49
5	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
6	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
7	Elastomeric Light Emitting Polymer Enhanced by Interpenetrating Networks. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32504-32511.	8.0	38
8	Loofah-like gel network formed by the self-assembly of a 3D radially symmetrical organic-inorganic hybrid gelator. <i>Chemical Communications</i> , 2014, 50, 7180.	4.1	37
9	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
10	A fully bio-based intumescent flame retardant for poly(butylene succinate). <i>Materials Chemistry and Physics</i> , 2020, 252, 123222.	4.0	34
11	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
12	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
13	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
14	Highly efficient and antibacterial zinc norfloxacin thermal stabilizer for poly(vinyl chloride). <i>RSC Advances</i> , 2016, 6, 97491-97502.	3.6	25
15	Efficiency and mechanism for the stabilizing action of N,N'-bis(phenylcarbamoyl)alkyldiamines as thermal stabilizers and co-stabilizers for poly(vinyl chloride). <i>Polymer Degradation and Stability</i> , 2014, 105, 178-184.	5.8	24
16	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
17	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
18	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

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19	Novel organic antibacterial thermal stabilizers for transparent poly(vinyl chloride). Journal of Thermal Analysis and Calorimetry, 2015, 122, 1435-1444.	3.6	22
20	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. RSC Advances, 2016, 6, 34685-34691.	3.6	21
21	Widely Applicable AIE Chemosensor for On-Site Fast Detection of Drugs Based on the POSS-Core Dendrimer with the Controlled Self-Assembly Mechanism. Langmuir, 2019, 35, 2649-2654.	3.5	21
22	Topological structure influences on the gel formation process and mechanical properties of lysine based supramolecular gels. RSC Advances, 2015, 5, 101437-101443.	3.6	19
23	Super-toughened poly(lactide) fabricated via reactive blending and interfacial compatibilization. Polymer International, 2016, 65, 1187-1194.	3.1	19
24	Self-Assembly of a Strong Polyhedral Oligomeric Silsesquioxane Core-Based Aspartate Derivative Dendrimer Supramolecular Gelator in Different Polarity Solvents. Langmuir, 2017, 33, 13332-13342.	3.5	17
25	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
26	Electroresponsive Stretchable Liquid-Crystal Device with Deformable Gel Network. Advanced Electronic Materials, 2019, 5, 1900373.	5.1	16
27	Synthesis, properties and applications of well-designed hybrid polymers based on polyhedral oligomeric silsesquioxane. Polymer International, 2022, 71, 379-392.	3.1	16
28	Strong and fast-recovery organic/inorganic hybrid AuNPs-supramolecular gels based on loofah-like 3D networks. Soft Matter, 2016, 12, 957-964.	2.7	15
29	The preparation and mechanism of permanently flame retardancy, antistatic, good toughness and high transparent poly(methyl methacrylate). Polymers for Advanced Technologies, 2021, 32, 1230-1238.	3.2	15
30	Tensile properties, thermal stability, and the mechanism of PVC stabilized with zinc and calcium oxolinic complexes. Journal of Applied Polymer Science, 2019, 136, 47004.	2.6	14
31	Achieving simultaneously toughening and flame-retardant modification of poly(lactide) by in-situ formed cross-linked polyurethane and reactive blending with ammonium polyphosphate. Journal of Materials Science, 2022, 57, 5645-5657.	3.7	14
32	Stronger Intermolecular Forces or Closer Molecular Spacing? Key Impact Factor Research of Gelator Self-Assembly Mechanism. Langmuir, 2017, 33, 14389-14395.	3.5	13
33	Permanently antistatic and high transparent PMMA terpolymer: Compatilizer, antistatic agent, and the antistatic mechanism. Polymers for Advanced Technologies, 2018, 29, 1788-1794.	3.2	13
34	Effect of triphenyl phosphite as a reactive compatibilizer on the properties of poly(lactide)/poly(butylene succinate) blends. Journal of Applied Polymer Science, 2020, 137, 48646.	2.6	13
35	Chirality on dendrimers: a roller booster of the molecule-level self-sorting assembly in two-component supramolecular gel system. Chemical Communications, 2020, 56, 2983-2986.	4.1	13
36	A one stop thermal stabilizer, zinc arginine complex, with excellent comprehensive thermal stability effect on poly(vinyl chloride). Polymer Degradation and Stability, 2019, 167, 58-66.	5.8	11

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37	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
38	Application of solubility parameters in the preparation of <sc>PMMA</sc> with permanent antistatic, high toughness, and excellent optical properties. <i>Polymers for Advanced Technologies</i> , 2021, 32, 3750-3758.	3.2	11
39	Effect of Mixing Process and Morphologies on the Electrical Conductivity of PA6/EVA/CB Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2011, 50, 533-538.	1.9	10
40	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
41	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
42	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
43	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
44	Effect of the composition and degree of crosslinking on the properties of poly(<sc>P</sc> lactide) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.1	8
45	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
46	Simultaneously enhanced fracture toughness and flame-retardant property of poly(<sc>P</sc> lactide) Tj ETQq0 0 0 rgBT /Overlock Polymer International, 2020, 69, 985-994.	3.1	8
47	Highly anisotropic thermal conductivity and electrical insulation of nanofibrillated cellulose/Al₂O₃@rGO composite films: effect of the particle size. <i>Nanotechnology</i> , 2022, 33, 135711.	2.6	8
48	Fracture toughness of polyamide 6/maleated ethylene "propylene" diene terpolymer rubber/nano calcium carbonate ternary composites according to essential work of fracture analysis. <i>Journal of Applied Polymer Science</i> , 2011, 120, 2971-2978.	2.6	7
49	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
50	A novel foaming approach to prepare porous superabsorbent poly(sodium acrylic acid) resins. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	7
51	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
52	The Synthesis of Amide Dendritic Gelators and its Self-assembly Behavior in MMA. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2011, 48, 896-903.	2.2	6
53	Mechanical Properties and Tensile Deformation Behavior of Polyamide 6/Maleated and Unmaleated Ethylene Propylene Diene Terpolymer/Nano-CaCO₃ Ternary Composites. <i>Journal of Macromolecular Science - Physics</i> , 2013, 52, 797-811.	1.0	6
54	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

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55	A true color palette: binary metastable photonic pigments. <i>Nanoscale Horizons</i> , 2022, 7, 890-898.	8.0	6
56	Multiporous microstructure for enhancing the water absorption and swelling rate in poly(sodium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 system. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	5
57	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
58	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
59	High Toughness and Light Transmittance of PMMA Composite Prepared via <i>In-Situ</i> Polymerization with Incorporating Self-Assembled Dendritic Gel Networks. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2014, 51, 173-179.	2.2	4
60	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
61	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
62	Facile regulation of the electro-optical properties of liquid crystal gels by kinetics controlled hierarchy self-assembly. <i>Polymer International</i> , 0, , .	3.1	2
63	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
64	High impact strength modified <i>Melamine</i> "Formaldehyde" resin with special "building blocks" structure. <i>Polymer Engineering and Science</i> , 2022, 62, 2165-2175.	3.1	2
65	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
66	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