Ivan Gitsov

List of Publications by Year in descending order

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136740 98622 4,631 87 32 67 citations h-index g-index papers 90 90 90 3221 times ranked docs citations citing authors all docs

#	Article	IF	CITATIONS
1	Self-Condensing Vinyl Polymerization: An Approach to Dendritic Materials. Science, 1995, 269, 1080-1083.	6.0	820
2	Double-Stage Convergent Approach for the Synthesis of Functionalized Dendritic Aliphatic Polyesters Based on 2,2-Bis(hydroxymethyl)propionic Acid. Macromolecules, 1998, 31, 4061-4068.	2.2	313
3	Dendrimers and Hyperbranched Polymers: Two Families of Three-Dimensional Macromolecules with Similar but Clearly Distinct Properties. Journal of Macromolecular Science - Pure and Applied Chemistry, 1996, 33, 1399-1425.	1.2	260
4	Importance of active-site reactivity and reaction conditions in the preparation of hyperbranched polymers by self-condensing vinyl polymerization: Highly branchedvs. linear poly[4-(chloromethyl)styrene] by metal-catalyzed ?living? radical polymerization. Journal of Polymer Science Part A, 1998, 36, 955-970.	2.5	225
5	Novel Polyether Copolymers Consisting of Linear and Dendritic Blocks. Angewandte Chemie International Edition in English, 1992, 31, 1200-1202.	4.4	221
6	Stimuli-Responsive Hybrid Macromolecules:Â Novel Amphiphilic Star Copolymers With Dendritic Groups at the Periphery. Journal of the American Chemical Society, 1996, 118, 3785-3786.	6.6	200
7	Solution and solid-state properties of hybrid linear-dendritic block copolymers. Macromolecules, 1993, 26, 6536-6546.	2.2	172
8	Synthesis and properties of novel linear-dendritic block copolymers. Reactivity of dendritic macromolecules toward linear polymers. Macromolecules, 1993, 26, 5621-5627.	2.2	171
9	Hybrid linear dendritic macromolecules: From synthesis to applications. Journal of Polymer Science Part A, 2008, 46, 5295-5314.	2.5	160
10	Conversion and removal strategies for microplastics in wastewater treatment plants and landfills. Chemical Engineering Journal, 2021, 406, 126715.	6.6	147
11	Molded Monolithic Rod of Macroporous Poly(styrene-co-divinylbenzene) as a Separation Medium for HPLC of Synthetic Polymers:  "On-Column―Precipitationâ°Redissolution Chromatography as an Alternative to Size Exclusion Chromatography of Styrene Oligomers and Polymers. Analytical Chemistry, 1996, 68, 315-321.	3.2	126
12	Novel Nanoscopic Architectures. Linear-Globular ABA Copolymers with Polyether Dendrimers as A Blocks and Polystyrene as B Block. Macromolecules, 1994, 27, 7309-7315.	2.2	108
13	Dendrimers as macroinitiators for anionic ring-opening polymerization. Polymerization of É-caprolactone. Macromolecular Rapid Communications, 1994, 15, 387-393.	2.0	107
14	Micelles with highly branched nanoporous interior: Solution properties and binding capabilities of amphiphilic copolymers with linear dendritic architecture. Journal of Polymer Science Part A, 2000, 38, 2711-2727.	2.5	93
15	Enzymatic Nanoreactors for Environmentally Benign Biotransformations. 1. Formation and Catalytic Activity of Supramolecular Complexes of Laccase and Linearâ [*] Dendritic Block Copolymers. Biomacromolecules, 2008, 9, 804-811.	2.6	70
16	A novel catalyst for the glycolysis of poly(ethylene terephthalate). Journal of Applied Polymer Science, 2003, 90, 2301-2301.	1.3	69
17	Novel Functionally Grafted Pseudo-Semi-interpenetrating Networks Constructed by Reactive Linearâ ^a Dendritic Copolymers1. Journal of the American Chemical Society, 2003, 125, 11228-11234.	6.6	65
18	Preparation and Characterization of Novel Amphiphilic Hydrogels with Covalently Attached Drugs and Fluorescent Markers. Macromolecules, 2010, 43, 10017-10030.	2.2	65

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19	Modification of Surfaces and Interfaces by Non-covalent Assembly of Hybrid Linearâ^'Dendritic Block Copolymers:Â Poly(benzyl ether) Dendrons as Anchors for Poly(ethylene glycol) Chains on Cellulose or Polyester. Chemistry of Materials, 1999, 11, 1267-1274.	3.2	60
20	Linear-Dendritic Supramolecular Complexes as Nanoscale Reaction Vessels for "Green―Chemistry. Dielsâ^'Alder Reactions between Fullerene C ₆₀ and Polycyclic Aromatic Hydrocarbons in Aqueous Medium. Langmuir, 2008, 24, 11431-11441.	1.6	60
21	Amphiphilic Hydrogels Constructed by Poly(ethylene glycol) and Shape-Persistent Dendritic Fragments1. Macromolecules, 2002, 35, 8418-8427.	2.2	59
22	Neuartige Polyethercopolymere mit einer linearen Zentraleinheit und dendritischen Endgruppen. Angewandte Chemie, 1992, 104, 1282-1285.	1.6	51
23	Nanoscopic supermolecules with linear-dendritic architecture: Their preparation and their supramolecular behavior. Macromolecular Symposia, 1995, 98, 441-465.	0.4	50
24	Dendrimers - Nanoparticles with Precisely Engineered Surfaces. Current Organic Chemistry, 2005, 9, 1025-1051.	0.9	49
25	Novel materials for bioanalytical and biomedical applications: Environmental response and binding/release capabilities of amphiphilic hydrogels with shape-persistent dendritic junctions. Journal of Polymer Science Part A, 2005, 43, 4017-4029.	2.5	47
26	Synthesis of novel asymmetric dendriticâ€linearâ€dendritic block copolymers via "livingâ€anionic polymerization of ethylene oxide initiated by dendritic macroinitiators. Journal of Polymer Science Part A, 2007, 45, 5136-5148.	2.5	47
27	Linearâ^'Dendritic Poly(ester)-block-poly(ether)-block-poly(ester) ABA Copolymers Constructed by a Divergent Growth Method1. Macromolecules, 2003, 36, 1068-1074.	2.2	46
28	Immobilization of Aminothiols on Poly(oxyalkylene phosphates). Formation of Poly(oxyethylene) Tj ETQq0 0 0 rg Chemistry, 2002, 45, 5797-5801.	gBT /Overlo 2.9	ock 10 Tf 50 3 45
29	Surface-Supported Bilayers with Transmembrane Proteins:Â Role of the Polymer Cushion Revisited. Langmuir, 2006, 22, 10145-10151.	1.6	45
30	Synthesis and Physical Properties of Reactive Amphiphilic Hydrogels Based on Poly(<i>p</i> -chloromethylstyrene) and Poly(ethylene glycol): Effects of Composition and Molecular Architecture. Macromolecules, 2010, 43, 3256-3267.	2.2	41
31	Immobilization of aminothiols on poly(oxyethyleneH-phosphonate)s and poly(oxyethylene) Tj ETQq1 1 0.78431. Polymer Science Part A, 2007, 45, 1349-1363.	4 rgBT /Ov 2.5	verlock 10 Tes 38
32	Polymerâ€assisted biocatalysis: Unprecedented enzymatic oxidation of fullerene in aqueous medium. Journal of Polymer Science Part A, 2012, 50, 119-126.	2.5	33
33	Hydrolysis of biodegradable polymers by superoxide ions. Journal of Polymer Science Part A, 1999, 37, 3558-3567.	2.5	27
34	Preparation of aqueous polyaniline-vesicle suspensions with class III peroxidases. Comparison between horseradish peroxidase isoenzyme C and soybean peroxidase. Chemical Papers, 2013, 67, .	1.0	24
35	"Click―Synthesis of Intrinsically Hydrophilic Dendrons and Dendrimers Containing Metal Binding Moieties at Each Branching Unit. Macromolecules, 2014, 47, 2199-2213.	2.2	24
36	Synthesis and hydrolytic stability of poly(oxyethyleneâ∈Hâ€phosphonate)s. Journal of Polymer Science Part A, 2008, 46, 4130-4139.	2.5	23

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37	Smart polymer recycling: Synthesis of novel rigid polyurethanes using phosphorus-containing oligomers formed by controlled degradation of microporous polyurethane elastomer. Journal of Applied Polymer Science, 2007, 105, 302-308.	1.3	22
38	Polymer-Assisted Biocatalysis: Effects of Macromolecular Architectures on the Stability and Catalytic Activity of Immobilized Enzymes toward Water-Soluble and Water-Insoluble Substrates. ACS Omega, 2018, 3, 1700-1709.	1.6	22
39	"Green―Synthesis of Unnatural Poly(Amino Acid)s with Zwitterionic Character and pH-Responsive Solution Behavior, Mediated by Linear–Dendritic Laccase Complexes. Biomacromolecules, 2014, 15, 4082-4095.	2.6	21
40	Linear—dendritic block copolymers. Advances in Dendritic Macromolecules, 2002, , 45-87.	0.6	21
41	Nonionic Amphiphilic Linear Dendritic Block Copolymers. Solvent-Induced Self-Assembly and Morphology Tuning. Macromolecules, 2019, 52, 5563-5573.	2.2	19
42	Anionic polymerization of lactones initiated by alkali graphitides. I. Polymerization of $\hat{l}\mu$ -caprolactone initiated by KC24. Journal of Polymer Science: Polymer Chemistry Edition, 1983, 21, 923-936.	0.8	18
43	A novel depolymerization route to phosphorus-containing oligocarbonates. Polymer, 2001, 42, 39-42.	1.8	18
44	Unprecedented Enzymatic Synthesis of Perfectly Structured Alternating Copolymers via "Green― Reaction Cocatalyzed by Laccase and Lipase Compartmentalized within Supramolecular Complexes. Biomacromolecules, 2019, 20, 927-936.	2.6	16
45	Decoration of Nanofibrous Paper Chemiresistors with Dendronized Nanoparticles toward Structurally Tunable Negativeâ€Going Response Characteristics to Human Breathing and Sweating. Advanced Materials Interfaces, 2017, 4, 1700380.	1.9	15
46	Thermosensitive Amphiphilic Janus Dendrimers with Embedded Metal Binding Sites. Synthesis and Self-Assembly. Macromolecules, 2018, 51, 5085-5100.	2.2	15
47	Separation and characterization of ?-caprolactone oligomers by gel permeation chromatography. Polymer Bulletin, 1985, 13, 285.	1.7	14
48	Synthesis of new hybrid macromolecules with cyclo-dendritic architecture. Chemical Communications, 2000, , 269-270.	2.2	14
49	Controlled ATRP Synthesis of Novel Linear-Dendritic Block Copolymers and Their Directed Self-Assembly in Breath Figure Arrays. Polymers, 2019, 11, 539.	2.0	14
50	Synthesis and Characterization of Zwitterionic Polymer Brush Functionalized Hydrogels with Ionic Responsive Coefficient of Friction. Langmuir, 2020, 36, 3932-3940.	1.6	14
51	Mechanism of the anionic polymerization of lactones, initiated by intercalation graphite compounds. Polymer Bulletin, 1981, 4, 97-103.	1.7	13
52	Polymer-Assisted Biocatalysis: Polyamide 4 Microparticles as Promising Carriers of Enzymatic Function. Catalysts, 2020, 10, 767.	1.6	13
53	Nondestructive Regioselective Modification of Laccase by Linear-Dendritic Copolymers: Enhanced Oxidation of Benzo-α-Pyrene in Water. ACS Symposium Series, 2005, , 80-94.	0.5	12
54	Anionic polymerization of lactones initiated by alkali graphitides. V. Initiation mechanism and nature of the active centers. Journal of Polymer Science Part A, 1990, 28, 2115-2126.	2.5	11

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55	Star-graft copolymers. Synthesis of amphiphilic graft copolymers with star-branched poly(oxyethylene) side chains. Journal of Polymer Science Part A, 1997, 35, 673-679.	2.5	11
56	Magnetically Responsive PA6 Microparticles with Immobilized Laccase Show High Catalytic Efficiency in the Enzymatic Treatment of Catechol. Catalysts, 2021, 11, 239.	1.6	10
57	Anionic polymerization of lactones initiated by alkali graphitides. III. Polymerization of $\hat{\Gamma}$ -valerolactone initiated by KC24. Journal of Polymer Science: Polymer Chemistry Edition, 1984, 22, 905-910.	0.8	9
58	Synthesis and evaluation of methyl methacrylate copolymers and terpolymers as electron beam resists. II. Methyl methacrylate copolymers and terpolymers containing aromatic rings. Journal of Applied Polymer Science, 1992, 46, 1631-1638.	1.3	9
59	Enzymatic Synthesis and Antimicrobial Activity of Oligomer Analogues of Medicinal Biopolymers from Comfrey and Other Species of the Boraginaceae Family. Pharmaceutics, 2022, 14, 115.	2.0	9
60	Cationic polymerization initiated by intercalation compounds of Lewis acids. Polymer Bulletin, 1983, 10, 487-490.	1.7	8
61	Synthesis of novolac resins: 2. Influence of the reaction medium on the properties of the novolac oligomers. Polymer, 1991, 32, 3067-3070.	1.8	8
62	A Single Enzyme Mediates the "Quasi-Living―Formation of Multiblock Copolymers with a Broad Biomedical Potential. Biomacromolecules, 2020, 21, 2132-2146.	2.6	8
63	Novel Amphiphilic Dendronized Copolymers Formed by Enzyme-Mediated "Green―Polymerization. Biomacromolecules, 2021, 22, 1706-1720.	2.6	8
64	Anionic polymerization of lactones initiated by alkali graphitides. II. Changes in the KC24 structure during polymerization of lactones. Journal of Polymer Science: Polymer Chemistry Edition, 1983, 21, 937-941.	0.8	7
65	Cationic polymerization initiated by intercalation compounds of lewis acids. II. Initiating ability and mechanism of action of the initiators. Journal of Polymer Science Part A, 1986, 24, 155-165.	2.5	7
66	Hybrid Dendritic Capsules: Properties and Binding Capabilities of Amphiphilic Copolymers with Linear Dendritic Architecture. ACS Symposium Series, 2000, , 72-92.	0.5	7
67	Amphiphilic Hydrogels with Highly Ordered Hydrophobic Dendritic Domains. ACS Symposium Series, 2002, , 218-232.	0.5	7
68	Phosphorus-containing oligoamides obtained by a novel one-pot degradation of polyamide-6. Polymer Degradation and Stability, 2006, 91, 778-788.	2.7	7
69	Biofilm Removal by Reversible Shape Recovery of the Substrate. ACS Applied Materials & Discrete Substrate. ACS	4.0	7
70	Hydroxyapatite-poly(d,l-lactide) Nanografts. Synthesis and Characterization as Bone Cement Additives. Molecules, 2021, 26, 424.	1.7	7
71	Green Oxidation of Steroids in Nanoreactors Assembled from Laccase and Linear-Dendritic Copolymers. ACS Symposium Series, 2008, , 110-128.	0.5	6
72	Synthesis and characterization of novel amphiphilic superâ€H copolymers with linear–dendritic architecture. Journal of Polymer Science Part A, 2015, 53, 178-182.	2.5	6

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73	Nano-Filamented Textile Sensor Platform with High Structure Sensitivity. ACS Applied Materials & Samp; Interfaces, 2022, 14, 15391-15400.	4.0	6
74	Poly(ethylene oxide) gel as a novel polymerization medium anionic polymerization of methyl methacrylate. Makromolekulare Chemie Macromolecular Symposia, 1993, 67, 157-173.	0.6	5
75	"Green―Synthesis of Bisphenol Polymers and Copolymers, Mediated by Supramolecular Complexes of Laccase and Linear-Dendritic Block Copolymers. ACS Symposium Series, 2013, , 121-139.	0.5	5
76	Copolymerization of styrene with some oxiranes initiated by KC24. European Polymer Journal, 1986, 22, 407-412.	2.6	3
77	Anionic polymerization of lactones initiated by alkali graphitides. IV. Copolymerization of É-caprolactone initiated by KC24. Journal of Polymer Science Part A, 1989, 27, 639-646.	2.5	3
78	Profiles. Drug Discovery Today, 2001, 6, 108-109.	3.2	3
79	Cationic polymerization initiated by intercalation compounds of lewis acids. II. Initiating ability and mechanism of action of the initiators. Journal of Polymer Science: Polymer Chemistry Edition, 1986, 24, 155-165.	0.8	3
80	Reactive Cellu-mersâ€"A Novel Approach to Improved Cellulose/Polymer Composites. Polymers, 2022, 14, 1670.	2.0	3
81	Synthesis and evaluation of methyl methacrylate copolymers and terpolymers as electron-beam resists. I. Poly(methyl methacrylate–methacrylic acid–methacryloyl chloride). Journal of Applied Polymer Science, 1990, 41, 2705-2710.	1.3	2
82	Importance of active-site reactivity and reaction conditions in the preparation of hyperbranched polymers by self-condensing vinyl polymerization: Highly branched vs. linear poly[4-(chloromethyl)styrene] by metal-catalyzed "living―radical polymerization. , 1998, 36, 955.		2
83	Polymerization Initiated by Graphite Intercalation Compounds Revisited: One-Pot Synthesis of Amphiphilic Pentablock Copolymers. Macromol, 2022, 2, 184-193.	2.4	2
84	Copolymerization of new pyrazolone-containing monomers with certain vinyl comonomers. Journal of Polymer Science Part A, 1991, 29, 889-895.	2.5	0
85	Meet Our Regional Editor:. Current Organic Chemistry, 2015, 20, 119-119.	0.9	0
86	& amp; $\#x201C$; Synthesis of unnatural poly (amino acid)s and their dendritic derivatives by polymer-enhanced laccase complexes $\#x201D$;., 2015 ,,.		0
87	Synthesis and Self-Assembly of Linear-Dendritic Hybrid Polymers. , 2013, , 1-11.		0