

Isao Yamaguchi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8497872/publications.pdf>

Version: 2024-02-01

75
papers

858
citations

566801

15
h-index

525886

27
g-index

79
all docs

79
docs citations

79
times ranked

825
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Soluble 1,10-Phenanthroline-Containing π -Conjugated Polymer: Synthesis and Effect of Metal Complexation on Optical Properties. <i>Advanced Materials</i> , 2003, 15, 293-296.	11.1	102
2	Polyrotaxane Containing a Blocking Group in Every Structural Unit of the Polymer Chain. Direct Synthesis of Poly(alkylenebenzimidazole) Rotaxane from Ru Complex-Catalyzed Reaction of 1,12-Dodecanediol and 3,3'-Diaminobenzidine in the Presence of Cyclodextrin. <i>Journal of the American Chemical Society</i> , 1996, 118, 1811-1812.	6.6	88
3	New Charge Transfer π -Type π -Conjugated Poly(aryleneethynylene) Containing Benzo[2,1,3]thiadiazole as the Electron-Accepting Unit. <i>Advanced Materials</i> , 2001, 13, 1862.	11.1	70
4	π -Conjugated Polyphenylenes with Diazaborole Side Chains Synthesized via 1,2-Phenylenediamine Polymer. <i>Macromolecules</i> , 2007, 40, 438-443.	2.2	67
5	N-Arylated pyridinium salts having reactive groups. <i>Tetrahedron Letters</i> , 2007, 48, 7778-7781.	0.7	37
6	Pd-complex-catalyzed synthesis of oligomers having a recurring benzodiazaborole unit in the main chain. <i>Polymer International</i> , 2009, 58, 17-21.	1.6	27
7	Preparation and properties of novel thermotropic liquid crystalline hyperbranched polyesters composed of five-membered heterocyclic mesogen by A2 + B3 approach. <i>Journal of Polymer Science Part A</i> , 2007, 45, 2998-3008.	2.5	26
8	Ring-Opening Copolymerization of Pyridinium Salts with Piperazine To Give Ionic Polymers with Expanded π -Conjugation System Derived from Through-Space Interaction in a Piperazinium Ring. <i>Macromolecules</i> , 2008, 41, 6292-6298.	2.2	23
9	One-Pot Synthesis of N-Substituted Diaza[12]annulenes. <i>Organic Letters</i> , 2006, 8, 4279-4281.	2.4	22
10	Synthesis of oligophenylenes containing hydroxyl group and their solvatochromic behavior. <i>Tetrahedron</i> , 2009, 65, 3645-3652.	1.0	21
11	Synthesis, Structure, and Chemical Properties of Lithium Salts of Poly(2-methoxyaniline-5-sulfonic) Tj ETQq1 1 0.784314 rgBT/Overlook	2.2	20
12	Alternating copolymer of bithiophene and dialkylbithiazole and its tendency to align on the surfaces. <i>Polymer</i> , 2006, 47, 6038-6041.	1.8	20
13	Ionic polymers and oligomers with expanded π -conjugation system derived from through-space interaction in piperazinium ring. <i>European Polymer Journal</i> , 2010, 46, 1119-1130.	2.6	20
14	Self-Doped Polyphenylenes Containing Electron-Accepting Viologen Side Group. <i>Macromolecules</i> , 2009, 42, 4416-4425.	2.2	19
15	Synthesis of n-Type π -Conjugated Polymers with Pendant Crown Ether and Their Stability of n-Doping State against Air. <i>Macromolecules</i> , 2010, 43, 9348-9354.	2.2	19
16	Novel liquid crystalline hyperbranched polyesters with interior 4,7-diphenyl-2,1,3-benzothiadiazole units. <i>Polymer Chemistry</i> , 2010, 1, 891.	1.9	14
17	Ionic Helical Polymers with Expanded π -Conjugation System Derived from Through-Space Interaction in Piperazinium Ring and Their Spontaneous Dynamic Conformational Changes. <i>Macromolecules</i> , 2011, 44, 1273-1279.	2.2	14
18	Uncatalyzed synthesis of polyacetylene with viologen side groups and their chemical properties. <i>Reactive and Functional Polymers</i> , 2009, 69, 864-869.	2.0	11

#	ARTICLE	IF	CITATIONS
19	Bluish-violet light-emitting liquid crystalline hyperbranched polymers using three trisalcohol B3 monomers: Preparation, characterisation and structure–property relationship. <i>Liquid Crystals</i> , 2012, 39, 1071-1081.	0.9	11
20	Synthesis and properties of liquid-crystalline triblock copolymers by ATRP, having electron-transporting thiadiazole unit. <i>Polymer International</i> , 2008, 57, 39-49.	1.6	10
21	Linear and $A_{2}+B_{3}$ -type hyperbranched polyesters comprising phenylbenzothiazole unit: Preparation, liquid crystalline, and optical properties. <i>Journal of Polymer Science Part A</i> , 2008, 46, 6688-6702.	2.5	9
22	Uncatalyzed synthesis of polypyrrole with viologen side groups and its chemical properties. <i>Journal of Materials Science</i> , 2011, 46, 4582-4587.	1.7	9
23	Intramolecular charge transfer induced by deprotonation of hydroxyl groups in π -conjugated polymers with π -deficient aromatic rings. <i>Reactive and Functional Polymers</i> , 2011, 71, 140-147.	2.0	9
24	Synthesis of polyfluorene and oligofluorene with N 1'-hexylcytosine side chains and their sensing ability for nucleosides. <i>Reactive and Functional Polymers</i> , 2017, 120, 14-19.	2.0	8
25	Synthesis and electrical properties of copolymers of π -phenylenediamine with aniline, 3,4-ethylenedioxythiophene and 2,3,5,6-tetrafluoroaniline. <i>Polymer International</i> , 2017, 66, 320-326.	1.6	8
26	1 : 2 Polycondensation of 3,3',4,4'-Biphenyltetramine and 1,1'-Ferrocenedimethanol Catalyzed by $[\text{RuCl}_2(\text{PPh}_3)_3]$ to Give Polybenzimidazole Containing Ferrocenylene Groups. <i>Bulletin of the Chemical Society of Japan</i> , 1999, 72, 2557-2562.	2.0	7
27	Enzyme and Transition-Metal-Complex Catalyzed Synthesis of Polyphenols with Pendant Oligo(p-phenylene) and Their Optical, Electrochemical, and Thermal Properties. <i>Macromolecules</i> , 2009, 42, 7836-7845.	2.2	7
28	Synthesis of dihydroxyoligophenylenes containing π -deficient or π -excess hetero-aromatic rings and their solvatochromic behavior. <i>Tetrahedron</i> , 2010, 66, 6725-6732.	1.0	7
29	Synthesis and solvatochromic behavior of branched oligophenylenes with hydroxy groups. <i>Journal of Physical Organic Chemistry</i> , 2014, 27, 622-627.	0.9	7
30	Synthesis, chemical, and thermoelectric properties of π -conjugated polymer composed of 1,2,4-triazole and pyridine rings and its metal complexes. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	7
31	NaH-assisted n-doping of polyanilines with dopant cation trapping sites and their stability of n-doping state against air. <i>Polymer</i> , 2015, 73, 79-85.	1.8	7
32	Synthesis and chemical properties of photoluminescent self-doped polyanilines. <i>Journal of Materials Science</i> , 2009, 44, 6408-6415.	1.7	6
33	Synthesis of 4'-bipyridinium salts of poly(2-methoxyaniline-5-sulfonic acid) and their self-doping and chemical properties. <i>Reactive and Functional Polymers</i> , 2009, 69, 91-96.	2.0	6
34	Chiral-phosphate anion-containing polymers with expanded π -conjugation systems derived from through-space interactions in the piperazinium ring. <i>Reactive and Functional Polymers</i> , 2012, 72, 904-911.	2.0	6
35	Organometallic synthesis of π -conjugated polymers with dopant cation trapping sites and stability of n-doping state against air. <i>Polymer International</i> , 2013, 62, 766-773.	1.6	6
36	π -Conjugated polymer with Alloxazine-6,9-diyl unit in the Main chain: Synthesis, chemical properties, and sensing ability for metal ions and nucleosides. <i>Reactive and Functional Polymers</i> , 2020, 155, 104691.	2.0	6

#	ARTICLE	IF	CITATIONS
37	Synthesis of Poly[(p-xylylene carbonate)-co-(p-xylylene oxide)] with OH End Groups and Its Polyaddition with Diisocyanates. <i>Macromolecules</i> , 1998, 31, 30-35.	2.2	5
38	Synthesis and Chemical Properties of Diacetylenes with Pyridinium and 4,4'-Bipyridinium Groups. <i>Helvetica Chimica Acta</i> , 2010, 93, 819-828.	1.0	5
39	Ionic polymers with expanded π -conjugation systems derived from through-space interaction in piperazinium and homopiperazinium rings. <i>Polymer International</i> , 2011, 60, 78-84.	1.6	5
40	Electron-transporting semi-rigid polyesterimides made up of a tetracarboxydiimide of <i>p</i> -terphenyl analogue of 1,3,4-oxadiazole: Preparation, and thermal, optical, and electrochemical properties. <i>Journal of Applied Polymer Science</i> , 2012, 126, E298.	1.3	5
41	Synthesis and chemical properties of electrochromic π -conjugated polyphenylenes with pendant viologen-TCNQ salts. <i>Journal of Applied Polymer Science</i> , 2013, 129, 397-403.	1.3	5
42	Eco-friendly synthesis of ionic helical polymers and their chemical properties and reactivity. <i>RSC Advances</i> , 2018, 8, 29988-29994.	1.7	5
43	Synthesis and Optical Properties of Zincke Salts Having Chiral Anions. <i>Heterocycles</i> , 2012, 85, 345.	0.4	4
44	Synthesis and chemical properties of conjugated polymers with bis(trifluoromethanesulfonyl)imide and bis(nonafluorobutanesulfonyl)imide anions. <i>European Polymer Journal</i> , 2019, 119, 359-366.	2.6	4
45	Metal-chloride-anion-containing polymers with expanded π -conjugation systems derived from through-space interactions in the piperazinium ring. <i>Polymer International</i> , 2019, 68, 886-892.	1.6	4
46	Water-soluble oligofluorenes bearing <i>N</i> -alkylcytosine side chains as turn-on and turn-off materials in telomere DNA length sensing. <i>Chemical Communications</i> , 2020, 56, 10914-10917.	2.2	4
47	Synthesis, properties and graft polymerization of ionic conjugated polymers with TCNQ anion radical. <i>Polymer</i> , 2021, 219, 123552.	1.8	4
48	π -conjugated polymers having diaza[12]annulene rings and aminopenta-2,4-dienylidene groups generated by the ring opening of pyridinium rings. <i>Journal of Polymer Science Part A</i> , 2007, 45, 1507-1514.	2.5	3
49	Polymer Possessing Diaza-18-crown 6-Ether Linked by π -Conjugated Aminopenta-2,4-dienylidene Groups Generated by Ring-opening of Pyridinium Ring. <i>Polymer Journal</i> , 2007, 39, 745-748.	1.3	3
50	Turn-on chemosensors for silver ions based on oligomers with diaza-16-crown 6-ether receptors and aromatic fluorophore end groups. <i>Polymer International</i> , 2012, 61, 307-313.	1.6	3
51	Reactive polythiophenes with zincke salt structure: Synthesis, polymer reactions, and chemical properties. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3340-3349.	2.5	3
52	Optical and electrochemical properties of oligo(1,5-dialkoxynaphthalene-2,6-diyl)s with self-assembled ordered structures in solid state. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	3
53	Synthesis and chemical properties of polyphenylenes cross-linked by electron-accepting viologen moiety. <i>Polymer Bulletin</i> , 2016, 73, 1827-1839.	1.7	3
54	Water-soluble graphene oxides grafted by polyanilines. <i>Polymer Composites</i> , 2021, 42, 559-566.	2.3	3

#	ARTICLE	IF	CITATIONS
55	Synthesis and Solvatochromic Behavior of Hexaphenylbenzenes and Indeno[1,2- <i>b</i> : <i>b'</i>]fluorene Derivatives with Hydroxy Groups. <i>International Journal of Organic Chemistry</i> , 2012, 02, 178-187.	0.3	3
56	Ru(0) complex catalyzed polyaddition. <i>Polymer Bulletin</i> , 1999, 42, 141-147.	1.7	2
57	Preparation of poly(alkylenebenzimidazole) by ruthenium complex catalyzed polycondensation of 3,3'-diaminobenzidine with α,ω -diols. <i>Journal of Polymer Science Part A</i> , 1999, 37, 1383-1392.	2.5	2
58	Synthesis and Solvatochromic Behavior of Pyrene Derivatives with 4-Hydroxyphenyl and 4-Hydroxyphenylethynyl Groups. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 1174-1182.	2.0	2
59	Synthesis of hydroxyoligophenylenes containing electron-donating, electron-accepting groups, or π -deficient aromatic ring and their solvatochromic behavior. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3671.	0.9	2
60	Chemical properties and self-assembled-ordered structures of π -conjugated cooligomers consisted of 2,6-dialkoxy-naphthalene-1,5-diyl, 2,1,3-benzothiadiazole-4,7-diyl, and 1,4-phenylenediethynylene units. <i>Polymer Bulletin</i> , 2018, 75, 1635-1650.	1.7	2
61	Synthesis and chemical properties of pyrophosphoric acid-doped polyaniline and copolymers of <i>o</i> -phenylenediamine with aniline and 3,4-ethylenedioxythiophene. <i>Polymer Bulletin</i> , 2019, 76, 4035-4046.	1.7	2
62	Synthesis of polyethyleneimines protonated by 1-pyrenesulfonic acid and their usability for solubilization of single-walled carbon nanotube. <i>Materials Letters</i> , 2019, 235, 80-83.	1.3	2
63	Polyfluorenes bearing N1-Alkylcytosine, Alkylphosphoryl, and Alkylammonium side chains: Synthesis, chemical properties, and sensing ability for metal ions. <i>Reactive and Functional Polymers</i> , 2021, 163, 104900.	2.0	2
64	Sensing performance of metal-ion sensors based on polyfluorenes bearing N1-Alkylcytosine, oligoether, and alkylammonium side chains. <i>Polymer</i> , 2022, 255, 125157.	1.8	2
65	π -Conjugated polyphenylene gels with charge transfer structures assisted by TCNQ. <i>Reactive and Functional Polymers</i> , 2011, 71, 1166-1171.	2.0	1
66	Uncatalyzed synthesis of polyphenylacetylene cross-linked by viologen groups and their chemical properties. <i>High Performance Polymers</i> , 2014, 26, 12-19.	0.8	1
67	Reactive regioregular oligothiophenes and polythiophenes with Zincke salt structure: Synthesis, reactions, and chemical properties. <i>Journal of Polymer Science Part A</i> , 2014, 52, 481-492.	2.5	1
68	Self-doped <i>N</i> -4-sulfopropylaniline- <i>3,4</i> -ethylenedioxythiophene copolymers. <i>High Performance Polymers</i> , 2017, 29, 976-983.	0.8	1
69	Ru-Complex-Catalyzed Synthesis of Telechelic Oligobenzimidazoles and Their Chemical Properties, Reactivity, and Structures. <i>Macromolecules</i> , 2018, 51, 91-100.	2.2	1
70	Conjugated polymers with anionic dyes: Synthesis, properties, and sensing ability for nucleosides, <i>DNA</i> , and <i>BSA</i> . <i>Journal of Applied Polymer Science</i> , 2021, 138, 50810.	1.3	1
71	Synthesis of polyesters and polyurethanes using telechelic oligobenzimidazoles as macromonomers. <i>Polymer Bulletin</i> , 2020, 77, 4789-4803.	1.7	0
72	Synthesis and chemical properties of polyethyleneimines crosslinked by penta- <i>2,4</i> -dienylideneammonium unit. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48712.	1.3	0

#	ARTICLE	IF	CITATIONS
73	Adherence behavior of 1-poly(propylene oxide)-2-(1-pyrenyl)benzimidazoles on graphene oxide surface. Chemical Physics Letters, 2020, 742, 137168.	1.2	0
74	Synthesis and optical properties of π -conjugated polymers and oligomers bearing hexaphenylbenzene and tetraphenyl ethene units. Journal of Polymer Science, 2021, 59, 3131.	2.0	0
75	Synthesis, chemical properties, and CO ₂ electroreduction of π -conjugated polymers bearing imidazolium and imidazolinium rings in the polymer backbone. Materials Today Chemistry, 2021, 22, 100601.	1.7	0