

Isao Yamaguchi

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | Water-soluble graphene oxides grafted by polyanilines. <i>Polymer Composites</i> , 2021, 42, 559-566. | 2.3 | 3 |
| 3 | Synthesis, properties and graft polymerization of ionic conjugated polymers with TCNQ anion radical. <i>Polymer</i> , 2021, 219, 123552. | 1.8 | 4 |
| 4 | Conjugated polymers with anionic dyes: Synthesis, properties, and sensing ability for nucleosides, <sc>DNA</sc>, and <sc>BSA</sc>. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50810. | 1.3 | 1 |
| 5 | 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 |
| 6 | Synthesis and optical properties of π -conjugated polymers and oligomers bearing hexaphenylbenzene and tetraphenyl ethene units. <i>Journal of Polymer Science</i> , 2021, 59, 3131. | 2.0 | 0 |
| 7 | Synthesis, chemical properties, and CO ₂ electroreduction of π -conjugated polymers bearing imidazolium and imidazolinium rings in the polymer backbone. <i>Materials Today Chemistry</i> , 2021, 22, 100601. | 1.7 | 0 |
| 8 | Synthesis of polyesters and polyurethanes using telechelic oligobenzimidazoles as macromonomers. <i>Polymer Bulletin</i> , 2020, 77, 4789-4803. | 1.7 | 0 |
| 9 | Synthesis and chemical properties of polyethyleneimines crosslinked by penta- ϵ ,4- ϵ diethylideneammonium unit. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48712. | 1.3 | 0 |
| 10 | Water-soluble oligofluorenes bearing N_1 -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 |
| 11 | 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 |
| 12 | Adherence behavior of 1-poly(propylene oxide)-2-(1-pyrenyl)benzimidazoles on graphene oxide surface. <i>Chemical Physics Letters</i> , 2020, 742, 137168. | 1.2 | 0 |
| 13 | 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 |
| 14 | 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 |
| 15 | Synthesis and chemical properties of pyrophosphoric acid-doped polyaniline and copolymers of o-phenylenediamine with aniline and 3,4-ethylenedioxythiophene. <i>Polymer Bulletin</i> , 2019, 76, 4035-4046. | 1.7 | 2 |
| 16 | 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 |
| 17 | Ru-Complex-Catalyzed Synthesis of Telechelic Oligobenzimidazoles and Their Chemical Properties, Reactivity, and Structures. <i>Macromolecules</i> , 2018, 51, 91-100. | 2.2 | 1 |
| 18 | Chemical properties and self-assembled-ordered structures of π -conjugated cooligomers consisted of 2,6-dialkoxynaphthalene-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 |

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|----|---|-----|-----------|
| 19 | Eco-friendly synthesis of ionic helical polymers and their chemical properties and reactivity. RSC Advances, 2018, 8, 29988-29994. | 1.7 | 5 |
| 20 | Synthesis of hydroxyoligophenylenes containing electron-donating, electron-accepting groups, or π -deficient aromatic ring and their solvatochromic behavior. Journal of Physical Organic Chemistry, 2017, 30, e3671. | 0.9 | 2 |
| 21 | Synthesis of polyfluorene and oligofluorene with N 1'-hexylcytosine side chains and their sensing ability for nucleosides. Reactive and Functional Polymers, 2017, 120, 14-19. | 2.0 | 8 |
| 22 | Synthesis and electrical properties of copolymers of π -phenylenediamine with aniline, 3,4-ethylenedioxythiophene and 2,3,5,6-tetrafluoroaniline. Polymer International, 2017, 66, 320-326. | 1.6 | 8 |
| 23 | Self-doped π -4-sulfopropylaniline- π -3,4-ethylenedioxythiophene copolymers. High Performance Polymers, 2017, 29, 976-983. | 0.8 | 1 |
| 24 | Synthesis and chemical properties of polyphenylenes cross-linked by electron-accepting viologen moiety. Polymer Bulletin, 2016, 73, 1827-1839. | 1.7 | 3 |
| 25 | NaH-assisted n-doping of polyanilines with dopant cation trapping sites and their stability of n-doping state against air. Polymer, 2015, 73, 79-85. | 1.8 | 7 |
| 26 | Optical and electrochemical properties of oligo(1,5-dialkoxynaphthalene- π -2,6-diyl)s with self-assembled ordered structures in solid state. Journal of Applied Polymer Science, 2015, 132, . | 1.3 | 3 |
| 27 | Uncatalyzed synthesis of polyphenylacetylene cross-linked by viologen groups and their chemical properties. High Performance Polymers, 2014, 26, 12-19. | 0.8 | 1 |
| 28 | Reactive regioregular oligothiophenes and polythiophenes with Zincke salt structure: Synthesis, reactions, and chemical properties. Journal of Polymer Science Part A, 2014, 52, 481-492. | 2.5 | 1 |
| 29 | Synthesis and solvatochromic behavior of branched oligophenylenes with hydroxy groups. Journal of Physical Organic Chemistry, 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. Journal of Applied Polymer Science, 2014, 131, . | 1.3 | 7 |
| 31 | Synthesis and chemical properties of electrochromic π -conjugated polyphenylenes with pendant viologen-TCNQ salts. Journal of Applied Polymer Science, 2013, 129, 397-403. | 1.3 | 5 |
| 32 | Organometallic synthesis of π -conjugated polymers with dopant cation trapping sites and stability of n-doping state against air. Polymer International, 2013, 62, 766-773. | 1.6 | 6 |
| 33 | Synthesis and Solvatochromic Behavior of Pyrene Derivatives with 4-Hydroxyphenyl and 4-Hydroxyphenylethynyl Groups. Bulletin of the Chemical Society of Japan, 2013, 86, 1174-1182. | 2.0 | 2 |
| 34 | Synthesis and Optical Properties of Zincke Salts Having Chiral Anions. Heterocycles, 2012, 85, 345. | 0.4 | 4 |
| 35 | Chiral-phosphate anion-containing polymers with expanded π -conjugation systems derived from through-space interactions in the piperazinium ring. Reactive and Functional Polymers, 2012, 72, 904-911. | 2.0 | 6 |
| 36 | Turn-on chemosensors for silver ions based on oligomers with diaza-crown 6-ether receptors and aromatic fluorophore end groups. Polymer International, 2012, 61, 307-313. | 1.6 | 3 |

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|----|--|-----|-----------|
| 37 | Reactive polythiophenes with zinc salt structure: Synthesis, polymer reactions, and chemical properties. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3340-3349. | 2.5 | 3 |
| 38 | 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 |
| 39 | Electron-transporting semi-rigid polyesterimides made up of a tetracarboxydiimide of 4-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 |
| 40 | Synthesis and Solvatochromic Behavior of Hexaphenylbenzenes and Indeno[1,2-b]fluorene Derivatives with Hydroxy Groups. <i>International Journal of Organic Chemistry</i> , 2012, 02, 178-187. | 0.3 | 3 |
| 41 | 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 |
| 42 | π -Conjugated polyphenylene gels with charge transfer structures assisted by TCNQ. <i>Reactive and Functional Polymers</i> , 2011, 71, 1166-1171. | 2.0 | 1 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | Synthesis and chemical properties of photoluminescent self-doped polyanilines. <i>Journal of Materials Science</i> , 2009, 44, 6408-6415. | 1.7 | 6 |
| 52 | 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 |
| 53 | Synthesis of oligophenylenes containing hydroxyl group and their solvatochromic behavior. <i>Tetrahedron</i> , 2009, 65, 3645-3652. | 1.0 | 21 |
| 54 | Synthesis of 4,4'-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 |

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|----|--|------|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | Self-Doped Polyphenylenes Containing Electron-Accepting Viologen Side Group. <i>Macromolecules</i> , 2009, 42, 4416-4425. | 2.2 | 19 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | π -Conjugated Polyphenylenes with Diazaborole Side Chains Synthesized via 1,2-Phenylenediamine Polymer. <i>Macromolecules</i> , 2007, 40, 438-443. | 2.2 | 67 |
| 62 | N-Arylated pyridinium salts having reactive groups. <i>Tetrahedron Letters</i> , 2007, 48, 7778-7781. | 0.7 | 37 |
| 63 | 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 |
| 64 | Preparation and properties of novel thermotropic liquid crystalline hyperbranched polyesters composed of five-membered heterocyclic mesogen by A ₂ + B ₃ approach. <i>Journal of Polymer Science Part A</i> , 2007, 45, 2998-3008. | 2.5 | 26 |
| 65 | 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 |
| 66 | One-Pot Synthesis of N-Substituted Diaza[12]annulenes. <i>Organic Letters</i> , 2006, 8, 4279-4281. | 2.4 | 22 |
| 67 | Alternating copolymer of bithiophene and dialkylbithiazole and its tendency to align on the surfaces. <i>Polymer</i> , 2006, 47, 6038-6041. | 1.8 | 20 |
| 68 | 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 |
| 69 | Synthesis, Structure, and Chemical Properties of Lithium Salts of Poly(2-methoxyaniline-5-sulfonic) Tj ETQq1 1 0.784314 rgBT ₂₀ Overlook | 2.2 | 20 |
| 70 | 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 |
| 71 | Ru(0) complex catalyzed polyaddition. <i>Polymer Bulletin</i> , 1999, 42, 141-147. | 1.7 | 2 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | 1 : 2 Polycondensation of 3,3'-,4,4'-Biphenyltetramine and 1,1'-Ferrocenedimethanol Catalyzed by [RuCl ₂ (PPh ₃) ₃] to Give Polybenzimidazole Containing Ferrocenylene Groups. Bulletin of the Chemical Society of Japan, 1999, 72, 2557-2562. | 2.0 | 7 |
| 74 | Synthesis of Poly[(p-xylylene carbonate)-co-(p-xylylene oxide)] with OH End Groups and Its Polyaddition with Diisocyanates. Macromolecules, 1998, 31, 30-35. | 2.2 | 5 |
| 75 | 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. Journal of the American Chemical Society, 1996, 118, 1811-1812. | 6.6 | 88 |