Shotaro Hayashi

List of Publications by Year in descending order

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304743 315739 1,690 61 22 38 citations h-index g-index papers 67 67 67 992 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Elastic Organic Crystals of a Fluorescent Ï€â€Conjugated Molecule. Angewandte Chemie - International Edition, 2016, 55, 2701-2704.	13.8	201
2	Creating Elastic Organic Crystals of Ï€â€Conjugated Molecules with Bending Mechanofluorochromism and Flexible Optical Waveguide. Angewandte Chemie - International Edition, 2018, 57, 17002-17008.	13.8	170
3	Elastic Organic Crystals of a Fluorescent π onjugated Molecule. Angewandte Chemie, 2016, 128, 2751-2754.	2.0	80
4	Anisotropic Poisson Effect and Deformationâ€Induced Fluorescence Change of Elastic 9,10â€Dibromoanthracene Single Crystals. Angewandte Chemie - International Edition, 2020, 59, 16195-16201.	13.8	75
5	Mechanically Induced Shaping of Organic Single Crystals: Facile Fabrication of Fluorescent and Elastic Crystal Fibers. Chemistry - A European Journal, 2018, 24, 8507-8512.	3.3	70
6	Elastic Bending Flexibility of a Fluorescent Organic Single Crystal: New Aspects of the Commonly Used Building Block 4,7-Dibromo-2,1,3-benzothiadiazole. Crystal Growth and Design, 2017, 17, 6158-6162.	3.0	67
7	Highly regioselective Pd/C-catalyzed direct arylation toward thiophene-based π-conjugated polymers. Polymer Chemistry, 2015, 6, 881-885.	3.9	64
8	Fluorescent organic single crystals with elastic bending flexibility: 1,4-bis(thien-2-yl)-2,3,5,6-tetrafluorobenzene derivatives. Scientific Reports, 2017, 7, 9453.	3.3	63
9	Synthesis of 9-Substituted Fluorene Copolymers via Chemical and Electrochemical Polymer Reaction and Their Optoelectronic Properties. Macromolecules, 2009, 42, 3755-3760.	4.8	61
10	Chloride-promoted Pd-catalyzed direct C–H arylation for highly efficient phosphine-free synthesis of π-conjugated polymers. Polymer Chemistry, 2015, 6, 5036-5039.	3.9	45
11	Functional flexible molecular crystals: intrinsic and mechanoresponsive properties. CrystEngComm, 2021, 23, 5686-5696.	2.6	44
12	Effects of molecular weight on the optical and electrochemical properties of EDOT-based π-conjugated polymers. Scientific Reports, 2017, 7, 1078.	3.3	40
13	From a benzodiazaborole-based compound to donor–acceptor polymer via electropolymerization. Polymer Chemistry, 2012, 3, 613.	3.9	39
14	Modification of pyridine-based conjugated polymer films via Lewis acid: halochromism, characterization and macroscopic gradation patterning. Polymer Chemistry, 2011, 2, 2764.	3.9	37
15	Creating Elastic Organic Crystals of π onjugated Molecules with Bending Mechanofluorochromism and Flexible Optical Waveguide. Angewandte Chemie, 2018, 130, 17248-17254.	2.0	36
16	Mechanically Flexible and Optically Tunable Organic Crystal Resonator. Advanced Optical Materials, 2022, 10, 2101808.	7.3	34
17	Post-functionalization of poly(3-hexylthiophene) via anodic chlorination. Synthetic Metals, 2009, 159, 1792-1795.	3.9	33
18	Elastic organic crystals of π-conjugated molecules: anisotropic densely packed supramolecular 3D polymers exhibit mechanical flexibility and shape tunability. Polymer Journal, 2019, 51, 813-823.	2.7	27

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19	2,5â€Dimethoxybenzeneâ€1,4â€dicarboxaldehyde: An Emissive Organic Crystal and Highly Efficient Fluorescent Waveguide. ChemPlusChem, 2019, 84, 247-251.	2.8	26
20	Palladium(0)â€Catalyzed Synthesis of Crossâ€Conjugated Polymers: Transformation into Linearâ€Conjugated Polymers through the Dielsâ€"Alder Reaction. Angewandte Chemie - International Edition, 2012, 51, 3682-3685.	13.8	25
21	Synthesis of i∈a∈conjugated network polymers based on fluoroarene and fluorescent units via direct arylation polycondensation and their porosity and fluorescent properties. Journal of Polymer Science Part A, 2017, 55, 3862-3867.	2.3	25
22	Synthesis of π-conjugated porous polymers via direct arylation of fluoroarenes with three-arm triazine. Polymer, 2016, 90, 187-192.	3.8	24
23	Solvent Control over Supramolecular Gel Formation and Fluorescence for a Highly Crystalline Ï€â€Conjugated Polymer. Chemistry - an Asian Journal, 2018, 13, 2014-2018.	3.3	21
24	Palladium Immobilized on Thiolâ€Modified Silica Gel for Effective Direct Câ^'H Arylation. ChemPlusChem, 2016, 81, 930-934.	2.8	20
25	Efficient electrochemical polymer halogenation using a thin-layered cell. Polymer Chemistry, 2011, 2, 1632.	3.9	19
26	Elastic Organic Crystals of π-Conjugated Molecules: New Concept for Materials Chemistry. Symmetry, 2020, 12, 2022.	2.2	19
27	Trifluoroborate-modification of both pyridine and N-alkyldiarylamine-based π-conjugated polymer films: tuning the electronic communication and the mean conjugated length based on two types of nitrogen in the conjugated main segments. RSC Advances, 2013, 3, 7375.	3.6	18
28	Direct arylation of fluoroarenes toward linear, bent-shaped and branched π-conjugated polymers: polycondensation post-polymerization approaches. Polymer Chemistry, 2016, 7, 5671-5686.	3.9	18
29	A Simple Route to Unsymmetric Cyano-substituted Oligo(<i>p</i> -phenylene-vinylene)s. Chemistry Letters, 2018, 47, 1003-1005.	1.3	17
30	Direct arylation polycondensation of \hat{l}^2 -unprotected chalcogen heteroles under phosphine-free conditions. Polymer, 2017, 113, 214-220.	3.8	16
31	Polymer Optical Microcavity Sensor for Volatile Organic Compounds with Distinct Selectivity toward Aromatic Hydrocarbons. ACS Omega, 2021, 6, 21066-21070.	3.5	16
32	Anisotropic Poisson Effect and Deformationâ€Induced Fluorescence Change of Elastic 9,10â€Dibromoanthracene Single Crystals. Angewandte Chemie, 2020, 132, 16329-16335.	2.0	15
33	Electrochemical Modification of a Fluorene-Carbazole Alternating Copolymer toward a Novel Donor-Acceptor Type Conjugated Polymer. Electrochemistry, 2010, 78, 114-117.	1.4	14
34	Macrostructural order and optical properties of polyfluorene-based polymer films. Polymer Journal, 2010, 42, 772-775.	2.7	14
35	Two Synthetic Approaches from 2,5-Di(2-thienyl)pyridine to a BF3-modified Polymer Film. Chemistry Letters, 2012, 41, 979-981.	1.3	14
36	Palladium on carbonâ€catalyzed direct Câ€"H arylation polycondensation of 3,4â€ethylenedioxythiophene with various dibromoarenes. Journal of Polymer Science Part A, 2017, 55, 1183-1188.	2.3	14

3

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37	Direction-specific fluorescence of an engineered organic crystal and the appearance of a new face caused by mechanically induced shaping. CrystEngComm, 2019, 21, 5990-5994.	2.6	14
38	A versatile scaffold for facile synthesis of fluorescent cyano-substituted stilbenes. Tetrahedron, 2019, 75, 1079-1084.	1.9	12
39	Dipyridinoarsole: a new class of stable and modifiable heteroatom-bridged bipyridines. Chemical Communications, 2020, 56, 6035-6038.	4.1	12
40	Highly crystalline and efficient red-emissive π-conjugated polymer film: tuning of macrostructure for light-emitting properties. Materials Advances, 2020, 1, 632-638.	5.4	12
41	Electropolymerization of Dithieno[3,2â€ <i>b</i> :2′,3′â€ <i>d</i>]arsole. ChemElectroChem, 2018, 5, 3357-3	3 36 0.	11
42	Curving deformation-induced photoluminescence changes and anisotropy analysis in elastic organic crystals. CrystEngComm, 2021, 23, 5763-5767.	2.6	11
43	From propargylic biscarbonate to diaryl[n]dendralenes. Tetrahedron Letters, 2017, 58, 2429-2432.	1.4	10
44	A Cyclic Compound based on Xanthene-linked π-Stacked Dimer via Direct Arylation. Chemistry Letters, 2017, 46, 200-203.	1.3	10
45	Thermotriggered Dominoâ€like Singleâ€Crystalâ€toâ€Singleâ€Crystal Phase Transition from Faceâ€toâ€Edge to Faceâ€toâ€Face Packing of Anthracenes. Chemistry - A European Journal, 2021, 27, 17595-17600.	3.3	9
46	Ï€-Conjugated alternating copolymer based on the 3,5-dinitro-9-fluorenone for electron-acceptor type materials. Synthetic Metals, 2012, 162, 1485-1489.	3.9	8
47	Solubility switching of fluorescent polymer films via lewis acid–base vapor treatments. Journal of Polymer Science Part A, 2014, 52, 3142-3145.	2.3	8
48	Synthesis of network polymer emitters: tunable detection of chemicals by geometric design. Polymer Journal, 2019, 51, 1055-1061.	2.7	8
49	Cyano-substituted oligo(<i>p</i> -phenylene-vinylene)s having linear and branched octyloxy groups: control of aggregation and emission properties <i>via</i> C8 alkyl chain difference. Molecular Systems Design and Engineering, 2021, 6, 503-507.	3.4	8
50	Facile synthesis of a variety of triarylamine-based conjugated polymers and tuning of their optoelectronic properties. Synthetic Metals, 2014, 187, 81-85.	3.9	6
51	Study on Direct Arylation of Bithiophene with Dibromoxanthene: Detection of Polymer, Oligomeric and Cyclic Byproducts and Easy Separation of the Polymer. Materials Today Communications, 2018, 17, 259-265.	1.9	5
52	Elastic Molecular Crystals: Their Deformation-Induced Reversible Unit Cell Changes with Specific Poisson Effect. Bulletin of the Chemical Society of Japan, 2022, 95, 721-727.	3.2	5
53	Structural Phase Transitions in Anthracene Crystals. ChemPlusChem, 2022, 87, .	2.8	5
54	Facile synthesis of <i>ortho</i> â€Phenyleneâ€based conjugated polymers through transformation of crossâ€conjugated poly(2,3â€diaryl[2]dendralene)s and their optical properties. Journal of Polymer Science Part A, 2019, 57, 827-832.	2.3	4

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55	Donor–acceptor random regioregular π-conjugated copolymers based on poly(3-hexylthiophene) with unsymmetrical monothienoisoindigo units. RSC Advances, 2020, 10, 19034-19040.	3.6	3
56	Flexible and Densely Packed π-Figuration System: Creating Elastic Organic Crystals of π-Conjugated Molecules. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2020, 78, 962-970.	0.1	3
57	Direct Arylation for the Control of π-Conjugated Polymer Structure. Kobunshi Ronbunshu, 2017, 74, 375-395.	0.2	2
58	Synthesis of acrylonitrile side chain-appended π-conjugated polymers by a Suzuki cross-coupling polycondensation and a Knoevenagel condensation, and their optical properties. Materials Advances, 0, , .	5.4	1
59	Innentitelbild: Creating Elastic Organic Crystals of Ï€â€Conjugated Molecules with Bending Mechanofluorochromism and Flexible Optical Waveguide (Angew. Chem. 52/2018). Angewandte Chemie, 2018, 130, 17154-17154.	2.0	O
60	Frontispiece: Mechanically Induced Shaping of Organic Single Crystals: Facile Fabrication of Fluorescent and Elastic Crystal Fibers. Chemistry - A European Journal, 2018, 24, .	3.3	0
61	Optoelectronic Properties of Alternating Copolymers Based on 3,4-Ethylenedioxythiophene and Various Dibromoarenes and Organic Solar Cells Prepared Thereof. Kobunshi Ronbunshu, 2019, 76, 179-183.	0.2	0