

# Takayuki Chiba

## List of Publications by Year in descending order

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74  
papers

4,729  
citations

185998

28  
h-index

110170

64  
g-index

75  
all docs

75  
docs citations

75  
times ranked

4793  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Step Crystallization for Low-Oxidation Tin-Based Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2022, 14, 22941-22949.	4.0	19
2	Gel permeation chromatography process for highly oriented Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> nanocrystal film. Scientific Reports, 2022, 12, 4620.	1.6	5
3	Energy Transfer between Size-Controlled CsPbI <sub>3</sub> Quantum Dots for Light-Emitting Diode Application. ACS Applied Materials & Interfaces, 2022, 14, 17691-17697.	4.0	9
4	Recent advances in solution-processed organic and perovskite nanocrystal light-emitting devices. Polymer Journal, 2022, 54, 969-976.	1.3	1
5	High luminescence and external quantum efficiency in perovskite quantum-dots light-emitting diodes featuring bilateral affinity to silver and short alkyl ligands. Chemical Engineering Journal, 2021, 414, 128866.	6.6	29
6	Energy Transfer from Blue-Emitting CsPbBr <sub>3</sub> Perovskite Nanocrystals to Green-Emitting CsPbBr <sub>3</sub> Perovskite Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 19368-19373.	1.5	11
7	Effects of alkylamine chain length on perovskite nanocrystals after washing and perovskite light-emitting diodes. Japanese Journal of Applied Physics, 2020, 59, SDDC04.	0.8	11
8	Neodymium Chloride-Doped Perovskite Nanocrystals for Efficient Blue Light-Emitting Devices. ACS Applied Materials & Interfaces, 2020, 12, 53891-53898.	4.0	33
9	<i>S</i> -Vinyl Sulfide-Derived Pendant-Type Sulfone/Phenoxazine-Based Polymers Exhibiting Thermally Activated Delayed Fluorescence: Synthesis and Photophysical Property Characterization. ACS Applied Polymer Materials, 2020, 2, 3310-3318.	2.0	11
10	Simple Production of Highly Luminescent Organometal Halide Perovskite Nanocrystals Using Ultrasound-Assisted Bead Milling. ACS Sustainable Chemistry and Engineering, 2020, 8, 16469-16476.	3.2	14
11	Surface Crystal Growth of Perovskite Nanocrystals via Postsynthetic Lead(II) Bromide Treatment to Increase the Colloidal Stability and Efficiency of Light-Emitting Devices. ACS Applied Materials & Interfaces, 2020, 12, 45574-45581.	4.0	21
12	Blue Perovskite Nanocrystal Light-Emitting Devices via the Ligand Exchange with Adamantane Diamine. Advanced Optical Materials, 2020, 8, 2000289.	3.6	52
13	Blue Perovskite Light-Emitting Devices: Blue Perovskite Nanocrystal Light-Emitting Devices via the Ligand Exchange with Adamantane Diamine (Advanced Optical Materials 13/2020). Advanced Optical Materials, 2020, 8, 2070054.	3.6	0
14	Synthesis of highly luminescent CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> perovskite nanocrystals via a forced thin film reactor. Japanese Journal of Applied Physics, 2020, 59, SIIIC02.	0.8	3
15	Simultaneous realization of high-efficiency, low-drive voltage, and long lifetime TADF OLEDs by multifunctional hole-transporters. Journal of Materials Chemistry C, 2020, 8, 7200-7210.	2.7	30
16	Gel Permeation Chromatography Purification Process for Highly Efficient Perovskite Nanocrystal Light-Emitting Devices. Journal of Photopolymer Science and Technology = [Fotopolimerika Konwakai Shi], 2020, 33, 393-397.	0.1	7
17	Doping of Tetraalkylammonium Salts in Polyethylenimine Ethoxylated for Efficient Electron Injection Layers in Solution-Processed Organic Light-Emitting Devices. ACS Applied Materials & Interfaces, 2019, 11, 25351-25357.	4.0	14
18	An Indolocarbazole-Based Thermally Activated Delayed Fluorescence Host for Solution-Processed Phosphorescent Tandem Organic Light-Emitting Devices Exhibiting Extremely Small Efficiency Roll-Off. Advanced Functional Materials, 2019, 29, 1808022.	7.8	34

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19	Low-temperature cross-linking of polyethyleneimine ethoxylated using silane coupling agents to obtain stable electron injection layers in solution-processed organic light-emitting devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6759-6766.	2.7	8
20	Molecular Orientation: Control of Molecular Orientation in Organic Semiconductor Films using Weak Hydrogen Bonds ( <i>Adv. Mater.</i> 18/2019). <i>Advanced Materials</i> , 2019, 31, 1970131.	11.1	0
21	Solution-Processed Tandem OLEDs: An Indolocarbazole-Based Thermally Activated Delayed Fluorescence Host for Solution-Processed Phosphorescent Tandem Organic Light-Emitting Devices Exhibiting Extremely Small Efficiency Roll-Off ( <i>Adv. Funct. Mater.</i> 16/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970102.	7.8	0
22	Control of Molecular Orientation in Organic Semiconductor Films using Weak Hydrogen Bonds. <i>Advanced Materials</i> , 2019, 31, e1808300.	11.1	62
23	ZnO/Polyethyleneimine Ethoxylated/Lithium Bis(trifluoromethanesulfonyl)imide for Solution-Processed Electron Injection Layers in Organic Light-Emitting Devices. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2019, 32, 577-583.	0.1	0
24	Anion Exchange Perovskite Quantum-Dots for Highly Efficient Light-Emitting-Devices. , 2019, , .		1
25	Post-Treatment-Free Solution-Processed Reduced Phosphomolybdic Acid Containing Molybdenum Oxide Units for Efficient Hole-Injection Layers in Organic Light-Emitting Devices. <i>Inorganic Chemistry</i> , 2018, 57, 1950-1957.	1.9	15
26	Organic Light-Emitting Devices: Air-Stable and High-Performance Solution-Processed Organic Light-Emitting Devices Based on Hydrophobic Polymeric Ionic Liquid Carrier-Injection Layers ( <i>Adv. Tj ETQqO OungBT /Overlock 10 TF</i> )		
27	Conjugated Polyelectrolyte Blend with Polyethyleneimine Ethoxylated for Thickness-Insensitive Electron Injection Layers in Organic Light-Emitting Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17318-17326.	4.0	27
28	Air-Stable and High-Performance Solution-Processed Organic Light-Emitting Devices Based on Hydrophobic Polymeric Ionic Liquid Carrier-Injection Layers. <i>Advanced Materials</i> , 2018, 30, e1705915.	11.1	36
29	Anion-exchange red perovskite quantum dots with ammonium iodine salts for highly efficient light-emitting devices. <i>Nature Photonics</i> , 2018, 12, 681-687.	15.6	1,123
30	Operation behaviors of interconnecting-layers in solution-processed tandem organic light-emitting devices. <i>Organic Electronics</i> , 2018, 63, 98-103.	1.4	4
31	Separation of mono-dispersed $\text{CH}_3\text{NH}_3\text{PbBr}_3$ perovskite quantum dots via dissolution of nanocrystals. <i>CrystEngComm</i> , 2018, 20, 7053-7057.	1.3	12
32	Interfacial Engineering of Perovskite Quantum-Dot Light-Emitting Devices Using Alkyl Ammonium Salt Layer. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2018, 31, 329-333.	0.1	2
33	Purification of Perovskite Quantum Dots Using Low-Dielectric-Constant Washing Solvent $\epsilon$ -Diglyme for Highly Efficient Light-Emitting Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 24607-24612.	4.0	102
34	Two-Dimensional $\text{Ca}_2\text{Nb}_3\text{O}_{10}$ Perovskite Nanosheets for Electron Injection Layers in Organic Light-Emitting Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27885-27893.	4.0	15
35	Dual mode OPV-OLED device with photovoltaic and light-emitting functionalities. <i>Scientific Reports</i> , 2018, 8, 11472.	1.6	18
36	Fabrication and characterization of dichroic fine crystals by the reprecipitation method. <i>Applied Physics Express</i> , 2018, 11, 065001.	1.1	0

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37	White OLED (WOLED) and Charge Generation Layer (CGL). , 2018, , 1-22.		3
38	Lead halide perovskite quantum dots for light-emitting devices. Journal of Materials Chemistry C, 2018, 6, 11868-11877.	2.7	47
39	High-Efficiency Perovskite Quantum-Dot Light-Emitting Devices by Effective Washing Process and Interfacial Energy Level Alignment. ACS Applied Materials & Interfaces, 2017, 9, 18054-18060.	4.0	289
40	Addition of Lithium 8-Quinolate into Polyethylenimine Electron-Injection Layer in OLEDs: Not Only Reducing Driving Voltage but Also Improving Device Lifetime. ACS Applied Materials & Interfaces, 2017, 9, 18113-18119.	4.0	32
41	57â€³: <i>Invited Paper</i>: Solutionâ€­Processed Electron Transporting Layer and Interface Characterization in Organic Light Emitting Diodes. Digest of Technical Papers SID International Symposium, 2017, 48, 849-852.	0.1	2
42	Pâ€­172: Solutionâ€­Processed Polymer and Smallâ€­Molecule Tandem OLEDs. Digest of Technical Papers SID International Symposium, 2017, 48, 1922-1924.	0.1	0
43	Inhibition of solution-processed 1,4,5,8,9,11-hexaazatriphenylene-hexacarbonitrile crystallization by mixing additives for hole injection layers in organic light-emitting devices. Polymer Journal, 2017, 49, 149-154.	1.3	8
44	Surface-Modified Zinc Oxide Nanoparticles for Electron Injection Layers in Organic Light-Emitting Devices. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2017, 30, 483-488.	0.1	3
45	A Solution-Processable Small-Molecule Host for Phosphorescent Organic Light-Emitting Devices. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2016, 29, 317-321.	0.1	3
46	Solution-Processed Tandem Organic Light-Emitting Devices. Kobunshi Ronbunshu, 2016, 73, 464-474.	0.2	0
47	Organic Light-Emitting Devices with Tandem Structure. Topics in Current Chemistry, 2016, 374, 33.	3.0	17
48	A Solution-Processed Heteropoly Acid Containing MoO <sub>3</sub> Units as a Hole-Injection Material for Highly Stable Organic Light-Emitting Devices. ACS Applied Materials & Interfaces, 2016, 8, 20946-20954.	4.0	50
49	Whiteâ€­Light Sources: Solutionâ€­Processed White Phosphorescent Tandem Organic Lightâ€­Emitting Devices (Adv. Mater. 32/2015). Advanced Materials, 2015, 27, 4804-4804.	11.1	1
50	Comparison of Spin and Blade Coating Methods in Solution-process for Organic Light-emitting Devices. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2015, 28, 343-347.	0.1	3
51	Efficient Electron Injection by Size- and Shape-Controlled Zinc Oxide Nanoparticles in Organic Light-Emitting Devices. ACS Applied Materials & Interfaces, 2015, 7, 25373-25377.	4.0	29
52	Solutionâ€­Processed White Phosphorescent Tandem Organic Lightâ€­Emitting Devices. Advanced Materials, 2015, 27, 4681-4687.	11.1	135
53	Solution-Processed Organic Light-Emitting Devices. , 2015, , 195-219.		0
54	Solution-processable electron injection materials for organic light-emitting devices. Journal of Materials Chemistry C, 2015, 3, 11567-11576.	2.7	68

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55	Fabrication of Organic Light-Emitting Devices Comprising Stacked Light-Emitting Units by Solution-Based Processes. <i>Advanced Materials</i> , 2015, 27, 1327-1332.	11.1	90
56	Instant Low-Temperature Cross-Linking of Poly(N-vinylcarbazole) for Solution-Processed Multilayer Blue Phosphorescent Organic Light-Emitting Devices. <i>Advanced Materials</i> , 2014, 26, 7543-7546.	11.1	85
57	Solution-processed multilayer small-molecule light-emitting devices with high-efficiency white-light emission. <i>Nature Communications</i> , 2014, 5, 5756.	5.8	278
58	Organic Light-Emitting Devices: Instant Low-Temperature Cross-Linking of Poly(N-vinylcarbazole) for Solution-Processed Multilayer Blue Phosphorescent Organic Light-Emitting Devices ( <i>Adv. Mater.</i> )	11.1	85
59	A Donor-Acceptor-type Host Material for Solution-processed Phosphorescent Organic Light-emitting Devices Showing High Efficiency. <i>Chemistry Letters</i> , 2014, 43, 1935-1936.	0.7	9
60	Lithium Phenolate Complexes with a Pyridine-Containing Polymer for Solution-Processable Electron Injection Layers in PLEDs. <i>Advanced Functional Materials</i> , 2014, 24, 6038-6045.	7.8	15
61	Multilayered Organic Light-Emitting Devices by Solution-Process. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2013, 26, 403-410.	0.1	14
62	Syntheses of Solution-Processable Arylamine Derivatives and Their Application to Organic Light Emitting Devices. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2012, 25, 335-339.	0.1	1
63	Solution-processed organic light-emitting devices with two polymer light-emitting units connected in series by a charge-generation layer. <i>Journal of Materials Chemistry</i> , 2012, 22, 22769.	6.7	41
64	Solution-Processed Inorganic-Organic Hybrid Electron Injection Layer for Polymer Light-Emitting Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 6104-6108.	4.0	61
65	Hole mobility measurement of 4,4-Bis[N-(1-naphthyl)-N-phenylamino]-biphenyl by dark injection method. <i>Chemical Physics Letters</i> , 2011, 502, 118-120.	1.2	14
66	Influence of Substituted Pyridine Rings on Physical Properties and Electron Mobilities of 2-Methylpyrimidine Skeleton-Based Electron Transporters. <i>Advanced Functional Materials</i> , 2011, 21, 336-342.	7.8	139
67	High-efficiency red, green and blue phosphorescent homojunction organic light-emitting diodes based on bipolar host materials. <i>Organic Electronics</i> , 2011, 12, 843-850.	1.4	86
68	Ultra-high efficiency by multiple emission from stacked organic light-emitting devices. <i>Organic Electronics</i> , 2011, 12, 710-715.	1.4	143
69	Efficient Low-Driving-Voltage Blue Phosphorescent Homojunction Organic Light-Emitting Devices. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 040204.	0.8	16
70	Structure-Property Relationship of Pyridine-Containing Triphenyl Benzene Electron-Transport Materials for Highly Efficient Blue Phosphorescent OLEDs. <i>Advanced Functional Materials</i> , 2009, 19, 1260-1267.	7.8	190
71	Pyridine-Containing Triphenylbenzene Derivatives with High Electron Mobility for Highly Efficient Phosphorescent OLEDs. <i>Advanced Materials</i> , 2008, 20, 2125-2130.	11.1	590
72	Wide-Energy-Gap Electron-Transport Materials Containing 3,5-Dipyridylphenyl Moieties for an Ultra High Efficiency Blue Organic Light-Emitting Device. <i>Chemistry of Materials</i> , 2008, 20, 5951-5953.	3.2	242

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73	2-Phenylpyrimidine skeleton-based electron-transport materials for extremely efficient green organic light-emitting devices. <i>Chemical Communications</i> , 2008, , 5821.	2.2	130
74	Novel Electron-transport Material Containing Boron Atom with a High Triplet Excited Energy Level. <i>Chemistry Letters</i> , 2007, 36, 262-263.	0.7	162