

# Shunto Arai

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

734  
citations

516215

16  
h-index

552369

26  
g-index

36  
all docs

36  
docs citations

36  
times ranked

859  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoparticle chemisorption printing technique for conductive silver patterning with submicron resolution. <i>Nature Communications</i> , 2016, 7, 11402.	5.8	104
2	Semiconductive Single Molecular Bilayers Realized Using Geometrical Frustration. <i>Advanced Materials</i> , 2018, 30, e1707256.	11.1	89
3	Surface-assisted single-crystal formation of charged colloids. <i>Nature Physics</i> , 2017, 13, 503-509.	6.5	53
4	Tunneling and Origin of Large Access Resistance in Layered-Crystal Organic Transistors. <i>Physical Review Applied</i> , 2017, 8, .	1.5	51
5	Meniscus-controlled printing of single-crystal interfaces showing extremely sharp switching transistor operation. <i>Science Advances</i> , 2020, 6, .	4.7	45
6	Extended and Modulated Thienothiophenes for Thermally Durable and Solution-Processable Organic Semiconductors. <i>Chemistry of Materials</i> , 2018, 30, 5050-5060.	3.2	33
7	Underlying Mechanism of Inkjet Printing of Uniform Organic Semiconductor Films Through Antisolvent Crystallization. <i>Advanced Functional Materials</i> , 2015, 25, 4022-4031.	7.8	28
8	Architecting Layered Crystalline Organic Semiconductors Based on Unsymmetric $\pi$ -Extended Thienoacenes. <i>Chemistry of Materials</i> , 2021, 33, 7379-7385.	3.2	26
9	Emerging Disordered Layered-Herringbone Phase in Organic Semiconductors Unveiled by Electron Crystallography. <i>Chemistry of Materials</i> , 2022, 34, 72-83.	3.2	26
10	Regioisomeric control of layered crystallinity in solution-processable organic semiconductors. <i>Chemical Science</i> , 2020, 11, 12493-12505.	3.7	25
11	Skin formation and bubble growth during drying process of polymer solution. <i>European Physical Journal E</i> , 2012, 35, 57.	0.7	23
12	Surface modification of printed silver electrodes for efficient carrier injection in organic thin-film transistors. <i>Organic Electronics</i> , 2017, 41, 137-142.	1.4	22
13	A unique route of colloidal phase separation yields stress-free gels. <i>Science Advances</i> , 2020, 6, .	4.7	22
14	Layered $\pi$ -Herringbone Polymorphs and Alkyl $\pi$ -Chain Ordering in Molecular Bilayer Organic Semiconductors. <i>Advanced Functional Materials</i> , 2020, 30, 1906406.	7.8	21
15	Bilayer-type Layered Herringbone Packing in 3- <i>n</i> -Octyl-9-phenyl-benzothieno[3,2- <i>b</i> ]naphtho[2,3- <i>b</i> ]thiophene. <i>Chemistry Letters</i> , 2019, 48, 453-456.	0.7	19
16	Architecting layered molecular packing in substituted benzobisbenzothiophene (BBBT) semiconductor crystals. <i>CrystEngComm</i> , 2020, 22, 3618-3626.	1.3	18
17	Low-voltage operation of organic thin-film transistors based on ultrafine printed silver electrodes. <i>Organic Electronics</i> , 2017, 50, 426-428.	1.4	17
18	Unidirectionally Crystallized Stable $n$ -Type Organic Thin-Film Transistors Based on Solution-Processable Donor-Acceptor Compounds. <i>Advanced Electronic Materials</i> , 2017, 3, 1700097.	2.6	14

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19	Effects of tunneling-based access resistance in layered single-crystalline organic transistors. <i>Journal of Materials Research</i> , 2018, 33, 2350-2363.	1.2	14
20	Field-Modulation Imaging of Ferroelectric Domains in Molecular Single-Crystal Films. <i>Physical Review Applied</i> , 2019, 11, .	1.5	12
21	Trap-state suppression and band-like transport in bilayer-type organic semiconductor ultrathin single crystals. <i>Physical Review Materials</i> , 2020, 4, .	0.9	12
22	Anomalous drying dynamics of a polymer solution on a substrate. <i>European Physical Journal E</i> , 2013, 36, 63.	0.7	11
23	Unique coexistence of dispersion stability and nanoparticle chemisorption in alkylamine/alkylacid encapsulated silver nanocolloids. <i>Scientific Reports</i> , 2018, 8, 6133.	1.6	11
24	Birefringent Field-Modulation Imaging of Transparent Ferroelectrics. <i>Physical Review Applied</i> , 2020, 14, .	1.5	10
25	Approaching Trap-Minimized Polymer Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2021, 31, 2105933.	7.8	8
26	Phase and Dispersion Stability of Silver Nanocolloids for Nanoparticle-Chemisorption Printing. <i>ACS Applied Nano Materials</i> , 2019, 2, 4342-4349.	2.4	6
27	Observation of the Three-Dimensional Polarization Vector in Films of Organic Molecular Ferroelectrics Using Terahertz Radiation Emission. <i>Physical Review Applied</i> , 2020, 14, .	1.5	5
28	Primary Phenomenon in the Network Formation of Endothelial Cells: Effect of Charge. <i>International Journal of Molecular Sciences</i> , 2015, 16, 29148-29160.	1.8	3
29	Anomalous Hydrodynamic Size Distributions of Alkylamine/Alkylacid-Encapsulated Silver Nanocolloids: Implications for Printing Ultrafine Conductive Patterns. <i>ACS Applied Nano Materials</i> , 2020, 3, 6884-6891.	2.4	2
30	Ferroelectrics field modulation imaging: A useful technique for domain and domain-wall observations. <i>Ferroelectrics</i> , 2020, 556, 37-43.	0.3	2
31	Environmental Response Sensors Produced Using Bilayer-Type Organic Semiconductors. <i>Journal of Robotics and Mechatronics</i> , 2022, 34, 257-259.	0.5	2
32	Printed Electronics: Underlying Mechanism of Inkjet Printing of Uniform Organic Semiconductor Films Through Antisolvent Crystallization ( <i>Adv. Funct. Mater.</i> 26/2015). <i>Advanced Functional Materials</i> , 2015, 25, 4021-4021.	7.8	0
33	Molecular Requirements for Printable Organic Semiconductors in 7-Alky1-2-phenyl[1]benzothieno[3,2-b][1]benzothiophenes (Ph-BTBT-Cn <sup>TM</sup> s). <i>MRS Advances</i> , 2016, 1, 2653-2658.	0.5	0
34	SuPR-NaP Technique for Printing Ultrafine Silver Electrodes and its Use for Low-Voltage Operation of Organic Thin-Film Transistors. <i>MRS Advances</i> , 2018, 3, 2931-2936.	0.5	0
35	Use of surface photo-reactive nanometal printing for polymer thin-film transistors: contact resistance and short-channel effects. <i>MRS Communications</i> , 2019, 9, 1181-1185.	0.8	0
36	Semiconductive Single Molecular Bilayers: a New Platform for High-Performance Organic Transistors. , 2020, , .		0