

Nan Liu

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,320
citations

257450

24
h-index

330143

37
g-index

40
all docs

40
docs citations

40
times ranked

6616
citing authors

#	ARTICLE	IF	CITATIONS
1	A Three-Dimensionally Interconnected Carbon Nanotube-Conducting Polymer Hydrogel Network for High-Performance Flexible Battery Electrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1400207.	19.5	280
2	Fast and reversible thermoresponsive polymer switching materials for safer batteries. <i>Nature Energy</i> , 2016, 1, .	39.5	253
3	Ultrahigh electrical conductivity in solution-sheared polymeric transparent films. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14138-14143.	7.1	248
4	Selective metal deposition at graphene line defects by atomic layer deposition. <i>Nature Communications</i> , 2014, 5, 4781.	12.8	243
5	Universal Segregation Growth Approach to Wafer-Size Graphene from Non-Noble Metals. <i>Nano Letters</i> , 2011, 11, 297-303.	9.1	239
6	Mechanically Durable and Highly Stretchable Transistors Employing Carbon Nanotube Semiconductor and Electrodes. <i>Advanced Materials</i> , 2016, 28, 4441-4448.	21.0	234
7	Ultrasensitive and stretchable graphene electrodes. <i>Science Advances</i> , 2017, 3, e1700159.	10.3	231
8	The origin of wrinkles on transferred graphene. <i>Nano Research</i> , 2011, 4, 996-1004.	10.4	211
9	Large-Area, Transparent, and Flexible Infrared Photodetector Fabricated Using P-N Junctions Formed by N-Doping Chemical Vapor Deposition Grown Graphene. <i>Nano Letters</i> , 2014, 14, 3702-3708.	9.1	201
10	Segregation Growth of Graphene on Cu-Ni Alloy for Precise Layer Control. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11976-11982.	3.1	188
11	Anti-Liquid-Interfering and Bacterially Antiadhesive Strategy for Highly Stretchable and Ultrasensitive Strain Sensors Based on Cassie-Baxter Wetting State. <i>Advanced Functional Materials</i> , 2020, 30, 2000398.	14.9	172
12	Ultra-conformal skin electrodes with synergistically enhanced conductivity for long-time and low-motion artifact epidermal electrophysiology. <i>Nature Communications</i> , 2021, 12, 4880.	12.8	116
13	High-quality single-layer graphene via reparative reduction of graphene oxide. <i>Nano Research</i> , 2011, 4, 434-439.	10.4	91
14	Partially-Screened Field Effect and Selective Carrier Injection at Organic Semiconductor/Graphene Heterointerface. <i>Nano Letters</i> , 2015, 15, 7587-7595.	9.1	58
15	Dynamic Ag-N Bond Enhanced Stretchable Conductor for Transparent and Self-Healing Electronic Skin. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1486-1494.	8.0	53
16	Investigating Limiting Factors in Stretchable All-Carbon Transistors for Reliable Stretchable Electronics. <i>ACS Nano</i> , 2017, 11, 7925-7937.	14.6	52
17	Shape-Engineered Synthesis of Atomically Thin 1T-SnS ₂ Catalyzed by Potassium Halides. <i>ACS Nano</i> , 2019, 13, 8265-8274.	14.6	51
18	Core-Sheath Stretchable Conductive Fibers for Safe Underwater Wearable Electronics. <i>Advanced Materials Technologies</i> , 2020, 5, 1900880.	5.8	46

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19	A Bioinspired, Durable, and Nondisposable Transparent Graphene Skin Electrode for Electrophysiological Signal Detection. , 2020, 2, 999-1007.		44
20	Scanning tunneling microscope observations of non-AB stacking of graphene on Ni films. Nano Research, 2011, 4, 712-721.	10.4	35
21	Transparent and Stretchable Graphene Electrode by Intercalation Doping for Epidermal Electrophysiology. ACS Applied Materials & Interfaces, 2020, 12, 56361-56371.	8.0	33
22	Topological structures of transition metal dichalcogenides: A review on fabrication, effects, applications, and potential. Informa & Materially, 2021, 3, 133-154.	17.3	29
23	A Lamellibranchia-inspired epidermal electrode for electrophysiology. Materials Horizons, 2021, 8, 1047-1057.	12.2	28
24	Probing the interfacial molecular packing in TIPS-pentacene organic semiconductors by surface enhanced Raman scattering. Journal of Materials Chemistry C, 2014, 2, 2985-2991.	5.5	27
25	Large-Scale Production of Graphene Nanoribbons from Electrospun Polymers. Journal of the American Chemical Society, 2014, 136, 17284-17291.	13.7	26
26	Stretchable MoS ₂ Artificial Photoreceptors for E-Skin. Advanced Functional Materials, 2022, 32, 2107524.	14.9	24
27	Electronically Weak Coupled Bilayer MoS ₂ at Various Twist Angles via Folding. ACS Applied Materials & Interfaces, 2021, 13, 22819-22827.	8.0	16
28	One-Interlayer-Twisted Multilayer MoS ₂ Moiré Superlattices. Advanced Functional Materials, 2022, 32, .	14.9	16
29	Direct Growth of Continuous and Uniform MoS ₂ Film on SiO ₂ /Si Substrate Catalyzed by Sodium Sulfate. Journal of Physical Chemistry Letters, 2020, 11, 1570-1577.	4.6	15
30	Enhanced Valley Polarization of Bilayer MoSe ₂ with Variable Stacking Order and Interlayer Coupling. Journal of Physical Chemistry Letters, 2021, 12, 5879-5888.	4.6	11
31	Vacuum-filtration enabled large-area CsPbBr ₃ films on porous substrates for flexible photodetectors. Journal of Materials Chemistry C, 2019, 7, 13402-13409.	5.5	9
32	Paraffin-Enabled Compressive Folding of Two-Dimensional Materials with Controllable Broadening of the Electronic Band Gap. ACS Applied Materials & Interfaces, 2021, 13, 40922-40931.	8.0	8
33	N-doped MoS ₂ via assembly transfer on an elastomeric substrate for high-photoresponsivity, air-stable and stretchable photodetector. Nano Research, 2022, 15, 9866-9874.	10.4	8
34	Tuning bandstructure of folded MoS ₂ through fluid dynamics. Nano Research, 2022, 15, 2734-2740.	10.4	7
35	Ammonium Salts: New Synergistic Additive for Chemical Vapor Deposition Growth of MoS ₂ . Journal of Physical Chemistry Letters, 2021, 12, 12384-12390.	4.6	7
36	Fabricating ultra-flexible photodetectors at the neutral mechanical plane by encapsulation. Journal of Materials Chemistry C, 2021, 9, 4070-4076.	5.5	5

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37	Stretchable graphene electrodes. , 2020, , 175-204.		2
38	Efficient and Air-Stable Doping of Folded MoS ₂ Nanosheets for Use in Field-Effect Transistors. ACS Applied Nano Materials, 2022, 5, 2068-2074.	5.0	2
39	P-198L:Late-News Poster: Graphene-Based Polymer Stabilized Liquid Crystal Electro-Optic Device. Digest of Technical Papers SID International Symposium, 2016, 47, 1666-1669.	0.3	1
40	Inside Cover Image. Informa [®] Materials, 2021, 3, .	17.3	0