

Firat GÃ¼rler

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

2,764
citations

257450

24
h-index

214800

47
g-index

56
all docs

56
docs citations

56
times ranked

4150
citing authors

#	ARTICLE	IF	CITATIONS
1	Disposable Sensors in Diagnostics, Food, and Environmental Monitoring. <i>Advanced Materials</i> , 2019, 31, e1806739.	21.0	540
2	Paper-Based Electrical Respiration Sensor. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5727-5732.	13.8	350
3	Integrating Electronics and Microfluidics on Paper. <i>Advanced Materials</i> , 2016, 28, 5054-5063.	21.0	216
4	Wearable devices for the detection of COVID-19. <i>Nature Electronics</i> , 2021, 4, 13-14.	26.0	174
5	Toward Continuous Monitoring of Breath Biochemistry: A Paper-Based Wearable Sensor for Real-Time Hydrogen Peroxide Measurement in Simulated Breath. <i>ACS Sensors</i> , 2019, 4, 2945-2951.	7.8	138
6	Electrically Activated Paper Actuators. <i>Advanced Functional Materials</i> , 2016, 26, 2446-2453.	14.9	135
7	Cellulose Fibers Enable Near-Zero-Cost Electrical Sensing of Water-Soluble Gases. <i>ACS Sensors</i> , 2019, 4, 1662-1669.	7.8	114
8	Multifunctional ZnO-Nanowire-Based Sensor. <i>Advanced Functional Materials</i> , 2011, 21, 4342-4348.	14.9	105
9	Multiplexed immunosensors for point-of-care diagnostic applications. <i>Biosensors and Bioelectronics</i> , 2022, 203, 114050.	10.1	69
10	Electrical Textile Valves for Paper Microfluidics. <i>Advanced Materials</i> , 2017, 29, 1702894.	21.0	60
11	Low-Cost Optical Assays for Point-of-Care Diagnosis in Resource-Limited Settings. <i>ACS Sensors</i> , 2021, 6, 2108-2124.	7.8	58
12	Integrated Devices for Non-Invasive Diagnostics. <i>Advanced Functional Materials</i> , 2021, 31, 2010388.	14.9	51
13	Homoepitaxial Branching: An Unusual Polymorph of Zinc Oxide Derived from Seeded Solution Growth. <i>ACS Nano</i> , 2012, 6, 7133-7141.	14.6	47
14	The future of near-field communication-based wireless sensing. <i>Nature Reviews Materials</i> , 2021, 6, 286-288.	48.7	47
15	Enhancing the quality of the tomography of nanoporous materials for better understanding of polymer electrolyte fuel cell materials. <i>Journal of Power Sources</i> , 2015, 285, 413-417.	7.8	42
16	Paper-Based Electrical Respiration Sensor. <i>Angewandte Chemie</i> , 2016, 128, 5821-5826.	2.0	38
17	Analytical Devices Based on Direct Synthesis of DNA on Paper. <i>Analytical Chemistry</i> , 2016, 88, 725-731.	6.5	38
18	Paper-based sensors for diagnostics, human activity monitoring, food safety and environmental detection. <i>Sensors & Diagnostics</i> , 2022, 1, 312-342.	3.8	32

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19	Electronic nose for toxic gas detection based on photostimulated core-shell nanowires. RSC Advances, 2014, 4, 35084-35088.	3.6	30
20	Clinical detection of neurodegenerative blood biomarkers using graphene immunosensor. Carbon, 2020, 168, 144-162.	10.3	30
21	Stretchable Composite Acoustic Transducer for Wearable Monitoring of Vital Signs. Advanced Functional Materials, 2020, 30, 1910288.	14.9	28
22	Controlled Positioning of Large Interfacial Nanocavities via Stress-Engineered Void Localization. Small, 2010, 6, 1603-1607.	10.0	27
23	Tracing the Migration History of Metal Catalysts in Metal-Assisted Chemically Etched Silicon. ACS Nano, 2013, 7, 1583-1590.	14.6	27
24	Autocatalytic Metallization of Fabrics Using Si Ink, for Biosensors, Batteries and Energy Harvesting. Advanced Functional Materials, 2019, 29, 1804798.	14.9	27
25	Antisolvent Crystallization Approach to Construction of CuI Superstructures with Defined Geometries. ACS Nano, 2013, 7, 2820-2828.	14.6	26
26	Bringing Order to the World of Nanowire Devices by Phase Shift Lithography. Nano Letters, 2011, 11, 3513-3518.	9.1	23
27	Superior Functionality by Design: Selective Ozone Sensing Realized by Rationally Constructed High-Index ZnO Surfaces. Small, 2012, 8, 3307-3314.	10.0	23
28	Regulated Oxidation of Nickel in Multisegmented Nickel-Platinum Nanowires: An Entry to Wavy Nanopeapods. Angewandte Chemie - International Edition, 2011, 50, 10855-10858.	13.8	21
29	Self-powered ultrasensitive and highly stretchable temperature-strain sensing composite yarns. Materials Horizons, 2021, 8, 2513-2519.	12.2	21
30	Atomic Layer Deposition on Phase-Shift Lithography Generated Photoresist Patterns for 1D Nanochannel Fabrication. ACS Applied Materials & Interfaces, 2010, 2, 3473-3478.	8.0	20
31	Improved optical properties of ZnO thin films by concurrently introduced interfacial voids during thermal annealing. Applied Physics Letters, 2011, 99, .	3.3	20
32	A Simple Approach for Molecular Controlled Release based on Atomic Layer Deposition Hybridized Organic-Inorganic Layers. Scientific Reports, 2016, 6, 19574.	3.3	20
33	Disposable silicon-based all-in-one micro-qPCR for rapid on-site detection of pathogens. Nature Communications, 2020, 11, 6176.	12.8	19
34	Soft Robotic Surrogate Lung. ACS Applied Bio Materials, 2019, 2, 1490-1497.	4.6	17
35	Point-of-use sensors and machine learning enable low-cost determination of soil nitrogen. Nature Food, 2021, 2, 981-989.	14.0	16
36	Stepped Moduli in Layered Composites. Advanced Functional Materials, 2014, 24, 7197-7204.	14.9	15

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37	Toward Discrete Multilayered Composite Structures: Do Hollow Networks Form in a Polycrystalline Infinite Nanoplane by the Kirkendall Effect?. Chemistry of Materials, 2011, 23, 4445-4451.	6.7	13
38	Detection of real-time dynamics of drug-target interactions by ultralong nanowalls. Lab on A Chip, 2013, 13, 4173.	6.0	12
39	Large-Scale Nano Piezo Force Position Arrays as Ultrahigh-Resolution Micro- and Nanoparticle Tracker. Advanced Functional Materials, 2013, 23, 191-197.	14.9	12
40	Sensors in blockchain. Trends in Biotechnology, 2022, 40, 141-144.	9.3	12
41	Engineered High Aspect Ratio Vertical Nanotubes as a Model System for the Investigation of Catalytic Methanol Synthesis Over Cu/ZnO. ACS Applied Materials & Interfaces, 2014, 6, 1576-1582.	8.0	9
42	Monolithic Solder-On Nanoporous Si-Cu Contacts for Stretchable Silicone Composite Sensors. ACS Applied Materials & Interfaces, 2019, 11, 47577-47586.	8.0	8
43	Bioinspired Stretchable Transducer for Wearable Continuous Monitoring of Respiratory Patterns in Humans and Animals. Advanced Materials, 2022, 34, .	21.0	7
44	Paper Actuators: Electrically Activated Paper Actuators (Adv. Funct. Mater. 15/2016). Advanced Functional Materials, 2016, 26, 2398-2398.	14.9	2
45	Non-Invasive Diagnostics: Integrated Devices for Non-Invasive Diagnostics (Adv. Funct. Mater. 15/2021). Advanced Functional Materials, 2021, 31, 2170105.	14.9	2
46	Lithography: Large-Scale Nano Piezo Force Position Arrays as Ultrahigh-Resolution Micro- and Nanoparticle Tracker (Adv. Funct. Mater. 2/2013). Advanced Functional Materials, 2013, 23, 264-264.	14.9	0
47	Fabric Electronics: Autocatalytic Metallization of Fabrics Using Si Ink, for Biosensors, Batteries and Energy Harvesting (Adv. Funct. Mater. 1/2019). Advanced Functional Materials, 2019, 29, 1970002.	14.9	0
48	Wireless Acoustic Sensors: Stretchable Composite Acoustic Transducer for Wearable Monitoring of Vital Signs (Adv. Funct. Mater. 16/2020). Advanced Functional Materials, 2020, 30, 2070104.	14.9	0