

# Firat GÃ¼ner

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/217100/publications.pdf>

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	Sensors in blockchain. Trends in Biotechnology, 2022, 40, 141-144.	9.3	12
2	Multiplexed immunosensors for point-of-care diagnostic applications. Biosensors and Bioelectronics, 2022, 203, 114050.	10.1	69
3	Paper-based sensors for diagnostics, human activity monitoring, food safety and environmental detection. Sensors & Diagnostics, 2022, 1, 312-342.	3.8	32
4	Bioinspired Stretchable Transducer for Wearable Continuous Monitoring of Respiratory Patterns in Humans and Animals. Advanced Materials, 2022, 34, .	21.0	7
5	Wearable devices for the detection of COVID-19. Nature Electronics, 2021, 4, 13-14.	26.0	174
6	The future of near-field communication-based wireless sensing. Nature Reviews Materials, 2021, 6, 286-288.	48.7	47
7	Noninvasive Diagnostics: Integrated Devices for Noninvasive Diagnostics (Adv. Funct. Mater. 15/2021). Advanced Functional Materials, 2021, 31, 2170105.	14.9	2
8	Low-Cost Optical Assays for Point-of-Care Diagnosis in Resource-Limited Settings. ACS Sensors, 2021, 6, 2108-2124.	7.8	58
9	Integrated Devices for Noninvasive Diagnostics. Advanced Functional Materials, 2021, 31, 2010388.	14.9	51
10	Self-powered ultrasensitive and highly stretchable temperature-strain sensing composite yarns. Materials Horizons, 2021, 8, 2513-2519.	12.2	21
11	Point-of-use sensors and machine learning enable low-cost determination of soil nitrogen. Nature Food, 2021, 2, 981-989.	14.0	16
12	Disposable silicon-based all-in-one micro-qPCR for rapid on-site detection of pathogens. Nature Communications, 2020, 11, 6176.	12.8	19
13	Clinical detection of neurodegenerative blood biomarkers using graphene immunosensor. Carbon, 2020, 168, 144-162.	10.3	30
14	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
15	Stretchable Composite Acoustic Transducer for Wearable Monitoring of Vital Signs. Advanced Functional Materials, 2020, 30, 1910288.	14.9	28
16	Toward Continuous Monitoring of Breath Biochemistry: A Paper-Based Wearable Sensor for Real-Time Hydrogen Peroxide Measurement in Simulated Breath. ACS Sensors, 2019, 4, 2945-2951.	7.8	138
17	Monolithic Solder-On Nanoporous Si-Cu Contacts for Stretchable Silicone Composite Sensors. ACS Applied Materials & Interfaces, 2019, 11, 47577-47586.	8.0	8
18	Cellulose Fibers Enable Near-Zero-Cost Electrical Sensing of Water-Soluble Gases. ACS Sensors, 2019, 4, 1662-1669.	7.8	114

#	ARTICLE	IF	CITATIONS
19	Disposable Sensors in Diagnostics, Food, and Environmental Monitoring. <i>Advanced Materials</i> , 2019, 31, e1806739.	21.0	540
20	Soft Robotic Surrogate Lung. <i>ACS Applied Bio Materials</i> , 2019, 2, 1490-1497.	4.6	17
21	Fabric Electronics: Autocatalytic Metallization of Fabrics Using Si Ink, for Biosensors, Batteries and Energy Harvesting ( <i>Adv. Funct. Mater.</i> 1/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970002.	14.9	0
22	Autocatalytic Metallization of Fabrics Using Si Ink, for Biosensors, Batteries and Energy Harvesting. <i>Advanced Functional Materials</i> , 2019, 29, 1804798.	14.9	27
23	Electrical Textile Valves for Paper Microfluidics. <i>Advanced Materials</i> , 2017, 29, 1702894.	21.0	60
24	Paper Actuators: Electrically Activated Paper Actuators ( <i>Adv. Funct. Mater.</i> 15/2016). <i>Advanced Functional Materials</i> , 2016, 26, 2398-2398.	14.9	2
25	Paper-Based Electrical Respiration Sensor. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5727-5732.	13.8	350
26	Electrically Activated Paper Actuators. <i>Advanced Functional Materials</i> , 2016, 26, 2446-2453.	14.9	135
27	A Simple Approach for Molecular Controlled Release based on Atomic Layer Deposition Hybridized Organic-Inorganic Layers. <i>Scientific Reports</i> , 2016, 6, 19574.	3.3	20
28	Integrating Electronics and Microfluidics on Paper. <i>Advanced Materials</i> , 2016, 28, 5054-5063.	21.0	216
29	Paper-Based Electrical Respiration Sensor. <i>Angewandte Chemie</i> , 2016, 128, 5821-5826.	2.0	38
30	Analytical Devices Based on Direct Synthesis of DNA on Paper. <i>Analytical Chemistry</i> , 2016, 88, 725-731.	6.5	38
31	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
32	Stepped Moduli in Layered Composites. <i>Advanced Functional Materials</i> , 2014, 24, 7197-7204.	14.9	15
33	Electronic nose for toxic gas detection based on photostimulated core-shell nanowires. <i>RSC Advances</i> , 2014, 4, 35084-35088.	3.6	30
34	Engineered High Aspect Ratio Vertical Nanotubes as a Model System for the Investigation of Catalytic Methanol Synthesis Over Cu/ZnO. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1576-1582.	8.0	9
35	Detection of real-time dynamics of drug-target interactions by ultralong nanowalls. <i>Lab on A Chip</i> , 2013, 13, 4173.	6.0	12
36	Antisolvent Crystallization Approach to Construction of CuI Superstructures with Defined Geometries. <i>ACS Nano</i> , 2013, 7, 2820-2828.	14.6	26

#	ARTICLE	IF	CITATIONS
37	Tracing the Migration History of Metal Catalysts in Metal-Assisted Chemically Etched Silicon. ACS Nano, 2013, 7, 1583-1590.	14.6	27
38	Large-Scale Nano Piezo Force Position Arrays as Ultrahigh-Resolution Micro- and Nanoparticle Tracker. Advanced Functional Materials, 2013, 23, 191-197.	14.9	12
39	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
40	Superior Functionality by Design: Selective Ozone Sensing Realized by Rationally Constructed High-Index ZnO Surfaces. Small, 2012, 8, 3307-3314.	10.0	23
41	Homoepitaxial Branching: An Unusual Polymorph of Zinc Oxide Derived from Seeded Solution Growth. ACS Nano, 2012, 6, 7133-7141.	14.6	47
42	Bringing Order to the World of Nanowire Devices by Phase Shift Lithography. Nano Letters, 2011, 11, 3513-3518.	9.1	23
43	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
44	Multifunctional ZnO-Nanowire-Based Sensor. Advanced Functional Materials, 2011, 21, 4342-4348.	14.9	105
45	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
46	Improved optical properties of ZnO thin films by concurrently introduced interfacial voids during thermal annealing. Applied Physics Letters, 2011, 99, .	3.3	20
47	Controlled Positioning of Large Interfacial Nanocavities via Stress-Engineered Void Localization. Small, 2010, 6, 1603-1607.	10.0	27
48	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