

# Shahrouz Taranejoo

## List of Publications by Year in descending order

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Version: 2024-02-01

123  
papers

8,439  
citations

53660

45  
h-index

45213

90  
g-index

126  
all docs

126  
docs citations

126  
times ranked

10861  
citing authors

#	ARTICLE	IF	CITATIONS
1	A wearable and highly sensitive pressure sensor with ultrathin gold nanowires. <i>Nature Communications</i> , 2014, 5, 3132.	5.8	1,731
2	Highly Stretchy Black Gold E-Skin Nanopatches as Highly Sensitive Wearable Biomedical Sensors. <i>Advanced Electronic Materials</i> , 2015, 1, 1400063.	2.6	405
3	Tattoolike Polyaniline Microparticle-Doped Gold Nanowire Patches as Highly Durable Wearable Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 19700-19708.	4.0	273
4	Disruptive, Soft, Wearable Sensors. <i>Advanced Materials</i> , 2020, 32, e1904664.	11.1	272
5	One-Dimensional Nanomaterials for Soft Electronics. <i>Advanced Electronic Materials</i> , 2017, 3, 1600314.	2.6	271
6	Percolating Network of Ultrathin Gold Nanowires and Silver Nanowires toward "Invisible" Wearable Sensors for Detecting Emotional Expression and Apexcardiogram. <i>Advanced Functional Materials</i> , 2017, 27, 1700845.	7.8	257
7	A Facile Ion-Doping Strategy To Regulate Tumor Microenvironments for Enhanced Multimodal Tumor Theranostics. <i>Journal of the American Chemical Society</i> , 2018, 140, 106-109.	6.6	229
8	Highly Stretchable and Strain-Insensitive Fiber-Based Wearable Electrochemical Biosensor to Monitor Glucose in the Sweat. <i>Analytical Chemistry</i> , 2019, 91, 6569-6576.	3.2	209
9	Recent progress in stretchable supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15478-15494.	5.2	188
10	Power generation for wearable systems. <i>Energy and Environmental Science</i> , 2021, 14, 2114-2157.	15.6	178
11	Toward Soft Skin-Like Wearable and Implantable Energy Devices. <i>Advanced Energy Materials</i> , 2017, 7, 1700648.	10.2	175
12	Resistive electronic skin. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5845-5866.	2.7	161
13	Local Crack-Programmed Gold Nanowire Electronic Skin Tattoos for In-Plane Multisensor Integration. <i>Advanced Materials</i> , 2019, 31, e1903789.	11.1	161
14	Hierarchically Structured Vertical Gold Nanowire Array-Based Wearable Pressure Sensors for Wireless Health Monitoring. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29014-29021.	4.0	148
15	Ultralow-density copper nanowire aerogel monoliths with tunable mechanical and electrical properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6723.	5.2	132
16	Volume-invariant ionic liquid microbands as highly durable wearable biomedical sensors. <i>Materials Horizons</i> , 2016, 3, 208-213.	6.4	121
17	Classification of stimuli-responsive polymers as anticancer drug delivery systems. <i>Drug Delivery</i> , 2015, 22, 145-155.	2.5	118
18	Fabrication of Highly Transparent and Flexible NanoMesh Electrode via Self-Assembly of Ultrathin Gold Nanowires. <i>Advanced Electronic Materials</i> , 2016, 2, 1600121.	2.6	112

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19	A review of the developments of characteristics of PEI derivatives for gene delivery applications. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	108
20	Vertically Aligned Gold Nanowires as Stretchable and Wearable Epidermal Ion-Selective Electrode for Noninvasive Multiplexed Sweat Analysis. <i>Analytical Chemistry</i> , 2020, 92, 4647-4655.	3.2	108
21	Stretchable gold fiber-based wearable textile electrochemical biosensor for lactate monitoring in sweat. <i>Talanta</i> , 2021, 222, 121484.	2.9	104
22	Copper Nanowires as Conductive Ink for Low-Cost Draw-On Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16760-16766.	4.0	103
23	A Wearable Second Skin-Like Multifunctional Supercapacitor with Vertical Gold Nanowires and Electrochromic Polyaniline. <i>Advanced Materials Technologies</i> , 2019, 4, 1800473.	3.0	88
24	Self-Assembled Nanocube-Based Plasmene Nanosheets as Soft Surface-Enhanced Raman Scattering Substrates toward Direct Quantitative Drug Identification on Surfaces. <i>Analytical Chemistry</i> , 2015, 87, 5263-5269.	3.2	82
25	Nanowire-Based Soft Wearable Human-Machine Interfaces for Future Virtual and Augmented Reality Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2008347.	7.8	80
26	Stretchable-Fiber-Confined Wetting Conductive Liquids as Wearable Human Health Monitors. <i>Advanced Functional Materials</i> , 2016, 26, 4511-4517.	7.8	79
27	Dual-Coded Plasmene Nanosheets as Next-Generation Anticounterfeit Security Labels. <i>Advanced Optical Materials</i> , 2015, 3, 1710-1717.	3.6	78
28	Electronic Skins Based on Liquid Metals. <i>Proceedings of the IEEE</i> , 2019, 107, 2168-2184.	16.4	77
29	Microfluidic Manipulation of Core/Shell Nanoparticles for Oral Delivery of Chemotherapeutics: A New Treatment Approach for Colorectal Cancer. <i>Advanced Materials</i> , 2016, 28, 4134-4141.	11.1	74
30	Self-Assembled Ultrathin Gold Nanowires as Highly Transparent, Conductive and Stretchable Supercapacitor. <i>Electroanalysis</i> , 2016, 28, 1298-1304.	1.5	73
31	Soft Wearable Healthcare Materials and Devices. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100577.	3.9	71
32	Investigation of gelation mechanism of an injectable hydrogel based on chitosan by rheological measurements for a drug delivery application. <i>Soft Matter</i> , 2012, 8, 7128.	1.2	70
33	A Soft Resistive Acoustic Sensor Based on Suspended Standing Nanowire Membranes with Point Crack Design. <i>Advanced Functional Materials</i> , 2020, 30, 1910717.	7.8	68
34	Black Gold: Broadband, High Absorption of Visible Light for Photochemical Systems. <i>Advanced Functional Materials</i> , 2017, 27, 1604080.	7.8	67
35	Ultrathin Plasmene Nanosheets as Soft and Surface-Attachable SERS Substrates with High Signal Uniformity. <i>Advanced Optical Materials</i> , 2015, 3, 919-924.	3.6	66
36	Real-Time and In-Situ Monitoring of H <sub>2</sub> O <sub>2</sub> Release from Living Cells by a Stretchable Electrochemical Biosensor Based on Vertically Aligned Gold Nanowires. <i>Analytical Chemistry</i> , 2019, 91, 13521-13527.	3.2	66

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37	Unconventional Janus Properties of Enokitake-like Gold Nanowire Films. <i>ACS Nano</i> , 2018, 12, 8717-8722.	7.3	65
38	Multiscale Soft-Hard Interface Design for Flexible Hybrid Electronics. <i>Advanced Materials</i> , 2020, 32, e1902278.	11.1	65
39	Fractal Gold Nanoframework for Highly Stretchable Transparent Strain-Insensitive Conductors. <i>Nano Letters</i> , 2018, 18, 3593-3599.	4.5	62
40	A Moss-Inspired Electroless Gold-Coating Strategy Toward Stretchable Fiber Conductors by Dry Spinning. <i>Advanced Electronic Materials</i> , 2019, 5, 1800462.	2.6	62
41	Skin inspired fractal strain sensors using a copper nanowire and graphite microflake hybrid conductive network. <i>Nanoscale</i> , 2016, 8, 16596-16605.	2.8	60
42	Vertical Gold Nanowires Stretchable Electrochemical Electrodes. <i>Analytical Chemistry</i> , 2018, 90, 13498-13505.	3.2	58
43	Copper Nanowire-Filled Soft Elastomer Composites for Applications as Thermal Interface Materials. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700387.	1.9	57
44	Free-Standing Polymer-Nanoparticle Superlattice Sheets Self-Assembled at the Air-Liquid Interface. <i>Crystal Growth and Design</i> , 2011, 11, 4742-4746.	1.4	56
45	Patterning Vertically Grown Gold Nanowire Electrodes for Intrinsically Stretchable Organic Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800509.	2.6	48
46	Highly Stretchable Fiber-Shaped Supercapacitors Based on Ultrathin Gold Nanowires with Double-Helix Winding Design. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42612-42620.	4.0	47
47	Bioreducible PEI-functionalized glycol chitosan: A novel gene vector with reduced cytotoxicity and improved transfection efficiency. <i>Carbohydrate Polymers</i> , 2016, 153, 160-168.	5.1	46
48	A General Approach to Free-Standing Nanoassemblies via Acoustic Levitation Self-Assembly. <i>ACS Nano</i> , 2019, 13, 5243-5250.	7.3	46
49	Free-Standing Bilayered Nanoparticle Superlattice Nanosheets with Asymmetric Ionic Transport Behaviors. <i>ACS Nano</i> , 2015, 9, 11218-11224.	7.3	45
50	Free-Standing 2D Nanoassemblies. <i>Advanced Functional Materials</i> , 2020, 30, 1902301.	7.8	45
51	Large-Scale Self-Assembly and Stretch-Induced Plasmonic Properties of Core-Shell Metal Nanoparticle Superlattice Sheets. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26816-26824.	1.5	42
52	2D Freestanding Janus Gold Nanocrystal Superlattices. <i>Advanced Materials</i> , 2019, 31, e1900989.	11.1	38
53	Self-assembly and characterization of 2D plasmene nanosheets. <i>Nature Protocols</i> , 2019, 14, 2691-2706.	5.5	37
54	Tumor cell-specific photothermal killing by SELEX-derived DNA aptamer-targeted gold nanorods. <i>Nanoscale</i> , 2016, 8, 187-196.	2.8	35

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55	Synthesis and characterization of thiolated carboxymethyl chitosan-graft-cyclodextrin nanoparticles as a drug delivery vehicle for albendazole. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 1939-1949.	1.7	34
56	Intrinsically Stretchable Fuel Cell Based on Enokitake-Like Standing Gold Nanowires. <i>Advanced Energy Materials</i> , 2020, 10, 1903512.	10.2	34
57	Matryoshka-caged gold nanorods: Synthesis, plasmonic properties, and catalytic activity. <i>Nano Research</i> , 2016, 9, 415-423.	5.8	31
58	Chitosan microparticles loaded with exotoxin A subunit antigen for intranasal vaccination against <i>Pseudomonas aeruginosa</i> : An in vitro study. <i>Carbohydrate Polymers</i> , 2011, 83, 1854-1861.	5.1	30
59	Tunable Broadband Optical Responses of Substrate-Supported Metal/Dielectric/Metal Nanospheres. <i>Plasmonics</i> , 2014, 9, 659-672.	1.8	28
60	2D Binary Plasmonic Nanoassemblies with Semiconductor n/p-Doping-Like Properties. <i>Advanced Materials</i> , 2018, 30, e1801118.	11.1	28
61	Adaptive DNA-based materials for switching, sensing, and logic devices. <i>Journal of Materials Chemistry</i> , 2011, 21, 6113.	6.7	26
62	Dynamically functioning and highly stretchable epidermal supercapacitor based on vertically aligned gold nanowire skins. <i>EcoMat</i> , 2020, 2, e12022.	6.8	26
63	Humidity-Responsive Single-Nanoparticle-Layer Plasmonic Films. <i>Advanced Materials</i> , 2017, 29, 1606796.	11.1	25
64	Hierarchical drug release of pH-sensitive liposomes encapsulating aqueous two phase system. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 127, 177-182.	2.0	24
65	Ultraflexible plasmonic nanocomposite aerogel. <i>RSC Advances</i> , 2011, 1, 1265.	1.7	23
66	Plasmene Metasurface Absorbers: Electromagnetic Hot Spots and Hot Carriers. <i>ACS Photonics</i> , 2019, 6, 314-321.	3.2	23
67	A Janus gold nanowire electrode for stretchable micro-supercapacitors with distinct capacitances. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14233-14238.	5.2	23
68	Design of Stretchable Holey Gold Biosensing Electrode for Real-Time Cell Monitoring. <i>ACS Sensors</i> , 2020, 5, 3165-3171.	4.0	22
69	Skin-Like Stretchable Fuel Cell Based on Gold-Nanowire-Impregnated Porous Polymer Scaffolds. <i>Small</i> , 2020, 16, e2003269.	5.2	22
70	Electronic Skin Wearable Sensors for Detecting Lumbar-Pelvic Movements. <i>Sensors</i> , 2020, 20, 1510.	2.1	21
71	Multicompartmentalized vesosomes containing DOX loaded liposomes and 5FU loaded liposomes for synergistic tumor treatment. <i>New Journal of Chemistry</i> , 2019, 43, 4895-4899.	1.4	20
72	Poly(N-isopropylacrylamide) capped plasmonic nanoparticles as resonance intensity-based temperature sensors with linear correlation. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10926-10932.	2.7	19

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73	Covalent-Cross-Linked Plasmene Nanosheets. <i>ACS Nano</i> , 2019, 13, 6760-6769.	7.3	19
74	Embedding Pinhole Vertical Gold Nanowire Electronic Skins for Braille Recognition. <i>Small</i> , 2019, 15, e1804853.	5.2	19
75	Shape Transformation of Constituent Building Blocks within Self-Assembled Nanosheets and Nano-origami. <i>ACS Nano</i> , 2018, 12, 1014-1022.	7.3	18
76	Liquid-Solid Interfacial Assemblies of Soft Materials for Functional Freestanding Layered Membrane-Based Devices toward Electrochemical Energy Systems. <i>Advanced Energy Materials</i> , 2019, 9, 1804005.	10.2	18
77	Polyelectrolyte Nanocomposite Membranes, Based on Chitosan-phosphotungstic Acid Complex and Montmorillonite for Fuel Cells Applications. <i>Journal of Macromolecular Science - Physics</i> , 2013, 52, 1226-1241.	0.4	17
78	A pH-responsive asymmetric lipid vesicle as drug carrier. <i>Journal of Microencapsulation</i> , 2016, 33, 663-668.	1.2	17
79	Soft gold nanowire sponge antenna for battery-free wireless pressure sensors. <i>Nanoscale</i> , 2021, 13, 3957-3966.	2.8	17
80	Fine-Tuning Au@Pd Nanocrystals for Maximum Plasmon-Enhanced Catalysis. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001686.	1.9	17
81	Effect of Organic Modification on Multiwalled Carbon Nanotube Dispersions in Highly Concentrated Emulsions. <i>ACS Omega</i> , 2019, 4, 6647-6659.	1.6	16
82	A gold nanowire-integrated soft wearable system for dynamic continuous non-invasive cardiac monitoring. <i>Biosensors and Bioelectronics</i> , 2022, 205, 114072.	5.3	15
83	Effect of Incorporation of Multiwalled Carbon Nanotubes on the Microstructure and Flow Behavior of Highly Concentrated Emulsions. <i>ACS Omega</i> , 2018, 3, 13584-13597.	1.6	14
84	Graphene-Enhanced 3D Chemical Mapping of Biological Specimens at Near-Atomic Resolution. <i>Advanced Functional Materials</i> , 2018, 28, 1801439.	7.8	14
85	Substrate-Mediated Broadband Tunability in Plasmonic Resonances of Metal Nanoantennas on Finite High-Permittivity Dielectric Substrate. <i>Plasmonics</i> , 2015, 10, 1663-1673.	1.8	13
86	Dual effect of F-actin targeted carrier combined with antimetabolic drug on aggressive colorectal cancer cytoskeleton: Allying dissimilar cell cytoskeleton disrupting mechanisms. <i>International Journal of Pharmaceutics</i> , 2016, 513, 464-472.	2.6	13
87	Direct Imaging of Liquid-Nanoparticle Interfaces with Atom Probe Tomography. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19389-19395.	1.5	13
88	Development of ultrasmall chitosan/succinyl- $\beta$ -cyclodextrin nanoparticles as a sustained protein delivery system. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	12
89	DNA based strategy to nanoparticle superlattices. <i>Methods</i> , 2014, 67, 215-226.	1.9	12
90	Soft Plasmonics: Design, Fabrication, Characterization, and Applications. <i>Advanced Optical Materials</i> , 2022, 10, 2101436.	3.6	12

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91	High-adhesion vertically aligned gold nanowire stretchable electrodes via a thin-layer soft nailing strategy. <i>Nanoscale Horizons</i> , 2019, 4, 1380-1387.	4.1	11
92	Site-specific Ag coating on concave Au nanoarrows by controlling the surfactant concentration. <i>Nanoscale Horizons</i> , 2019, 4, 940-946.	4.1	11
93	Highly Selective Nanostructured Electrochemical Sensor Utilizing Densely Packed Ultrathin Gold Nanowires Film. <i>Electroanalysis</i> , 2020, 32, 1850-1858.	1.5	11
94	Enhanced enzymatic degradation resistance of plasmid DNA in ionic liquids. <i>RSC Advances</i> , 2015, 5, 43839-43844.	1.7	10
95	Probing Soft Corona Structures of DNA-Capped Nanoparticles by Small Angle Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18773-18778.	1.5	10
96	Seagrass-inspired design of soft photocatalytic sheets based on hydrogel-integrated free-standing 2D nanoassemblies of multifunctional nanohexagons. <i>Materials Horizons</i> , 2021, 8, 2533-2540.	6.4	10
97	Pulsed-voltage atom probe tomography of low conductivity and insulator materials by application of ultrathin metallic coating on nanoscale specimen geometry. <i>Ultramicroscopy</i> , 2017, 181, 150-159.	0.8	9
98	Orientation-Dependent Soft Plasmonics of Gold Nanobipyramid Plasmonic Nanosheets. <i>Nano Letters</i> , 2021, 21, 389-396.	4.5	9
99	A multifunctional biomimetic hybrid nanocarrier for the controlled delivery of chemotherapy drugs by near-infrared light. <i>New Journal of Chemistry</i> , 2019, 43, 2752-2757.	1.4	8
100	Preparation and characterization of poly(lactic-co-glycolic acid)/insulin nanoparticles encapsulated in methacrylate coated gelatin with sustained release for specific medical applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020, 31, 910-937.	1.9	8
101	3D Printed Anchoring Sutures for Permanent Shaping of Tissues. <i>Macromolecular Bioscience</i> , 2017, 17, 1700304.	2.1	7
102	Self-Assembled Plasmonic Pyramids from Anisotropic Nanoparticles for High-Efficient SERS. <i>Journal of Analysis and Testing</i> , 2017, 1, 335-343.	2.5	7
103	Soft, Disruptive and Wearable Electrochemical Biosensors. <i>Current Analytical Chemistry</i> , 2022, 18, 689-704.	0.6	7
104	Cat-Tail-Like Mesostructured Silica Fibers Decorated with Gold Nanowires: Synthesis, Characterization, and Application as Stretchable Sensors. <i>ChemPlusChem</i> , 2019, 84, 1031-1038.	1.3	6
105	Enzyme-like electrocatalysis from 2D gold nanograin-nanocube assemblies. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 24-34.	5.0	6
106	Smart materials and devices for electronic textiles. <i>MRS Bulletin</i> , 2021, 46, 488-490.	1.7	6
107	Thermoresponsive chiral plasmonic nanoparticles. <i>Nanoscale</i> , 2022, 14, 4292-4303.	2.8	6
108	An Adaptive Soft Plasmonic Nanosheet Resonator. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800302.	4.4	5

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109	Active strain engineering of soft plasmene nanosheets by thermoresponsive hydrogels. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12720-12726.	2.7	5
110	Two-Dimensional Nanoassemblies from Plasmonic Matryoshka Nanoframes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27753-27762.	1.5	5
111	Sensors: Mimosaâ€”Inspired Design of a Flexible Pressure Sensor with Touch Sensitivity ( <i>Small</i> 16/2015). <i>Small</i> , 2015, 11, 1885-1885.	5.2	4
112	Self-Luminous Fiber-Reinforced Polymer Composites for Structural Applications. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, 04014120.	1.3	4
113	Functional Graphene Derivatives for Chemotherapy-Based Synergistic Tumor Therapy. <i>Nano</i> , 2019, 14, 1930006.	0.5	4
114	Cell Sheetâ€”Like Soft Nanoreactor Arrays. <i>Advanced Materials</i> , 2022, 34, e2105630.	11.1	4
115	SERS: Ultrathin Plasmene Nanosheets as Soft and Surface-Attachable SERS Substrates with High Signal Uniformity ( <i>Advanced Optical Materials</i> 7/2015). <i>Advanced Optical Materials</i> , 2015, 3, 918-918.	3.6	3
116	Mechanically-gated electrochemical ionic channels with chemically modified vertically aligned gold nanowires. <i>IScience</i> , 2021, 24, 103307.	1.9	3
117	Ultra-sensitive photon sensor based on self-assembled nanoparticle plasmonic membrane resonator. , 2016, , .		2
118	The Virtual-Spine Platformâ€”Acquiring, visualizing, and analyzing individual sitting behavior. <i>PLoS ONE</i> , 2018, 13, e0195670.	1.1	2
119	Catâ€”Tailâ€”Like Mesostructured Silica Fibers Decorated with Gold Nanowires: Synthesis, Characterization, and Application as Stretchable Sensors. <i>ChemPlusChem</i> , 2019, 84, 1030-1030.	1.3	1
120	Two-Dimensional Plasmonic Nanoassemblies: Fabrication, Properties, and Applications. , 2022, , 351-407.		1
121	Out-of-Hospital Body Movement Data Collection Using E-Skin Sensors. , 2019, , .		0
122	Chitosanâ€”Cyclodextrin Complexes: Geneâ€”Drug Delivery. , 0, , 1648-1665.		0
123	Stimuli Responsive Plasmonic Nanoparticles. , 2022, , 539-584.		0