

# Shahrouz Taranejoo

## List of Publications by Year in descending order

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Version: 2024-02-01

123  
papers

8,439  
citations

53794

45  
h-index

45317

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.	12.8	1,731
2	Highly Stretchy Black Gold E-Skin Nanopatches as Highly Sensitive Wearable Biomedical Sensors. <i>Advanced Electronic Materials</i> , 2015, 1, 1400063.	5.1	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.	8.0	273
4	Disruptive, Soft, Wearable Sensors. <i>Advanced Materials</i> , 2020, 32, e1904664.	21.0	272
5	One-Dimensional Nanomaterials for Soft Electronics. <i>Advanced Electronic Materials</i> , 2017, 3, 1600314.	5.1	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.	14.9	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.	13.7	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.	6.5	209
9	Recent progress in stretchable supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15478-15494.	10.3	188
10	Power generation for wearable systems. <i>Energy and Environmental Science</i> , 2021, 14, 2114-2157.	30.8	178
11	Toward Soft Skin-Like Wearable and Implantable Energy Devices. <i>Advanced Energy Materials</i> , 2017, 7, 1700648.	19.5	175
12	Resistive electronic skin. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5845-5866.	5.5	161
13	Local Crack-Programmed Gold Nanowire Electronic Skin Tattoos for In-Plane Multisensor Integration. <i>Advanced Materials</i> , 2019, 31, e1903789.	21.0	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.	8.0	148
15	Ultralow-density copper nanowire aerogel monoliths with tunable mechanical and electrical properties. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6723.	10.3	132
16	Volume-invariant ionic liquid microbands as highly durable wearable biomedical sensors. <i>Materials Horizons</i> , 2016, 3, 208-213.	12.2	121
17	Classification of stimuli-responsive polymers as anticancer drug delivery systems. <i>Drug Delivery</i> , 2015, 22, 145-155.	5.7	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.	5.1	112

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19	A review of the developments of characteristics of PEI derivatives for gene delivery applications. Journal of Applied Polymer Science, 2015, 132, .	2.6	108
20	Vertically Aligned Gold Nanowires as Stretchable and Wearable Epidermal Ion-Selective Electrode for Noninvasive Multiplexed Sweat Analysis. Analytical Chemistry, 2020, 92, 4647-4655.	6.5	108
21	Stretchable gold fiber-based wearable textile electrochemical biosensor for lactate monitoring in sweat. Talanta, 2021, 222, 121484.	5.5	104
22	Copper Nanowires as Conductive Ink for Low-Cost Draw-On Electronics. ACS Applied Materials & Interfaces, 2015, 7, 16760-16766.	8.0	103
23	A Wearable Second Skin-Like Multifunctional Supercapacitor with Vertical Gold Nanowires and Electrochromic Polyaniline. Advanced Materials Technologies, 2019, 4, 1800473.	5.8	88
24	Self-Assembled Nanocube-Based Plasmene Nanosheets as Soft Surface-Enhanced Raman Scattering Substrates toward Direct Quantitative Drug Identification on Surfaces. Analytical Chemistry, 2015, 87, 5263-5269.	6.5	82
25	Nanowire-Based Soft Wearable Human-Machine Interfaces for Future Virtual and Augmented Reality Applications. Advanced Functional Materials, 2021, 31, 2008347.	14.9	80
26	Stretchable-Fiber-Confined Wetting Conductive Liquids as Wearable Human Health Monitors. Advanced Functional Materials, 2016, 26, 4511-4517.	14.9	79
27	Dual-Coded Plasmene Nanosheets as Next-Generation Anticounterfeit Security Labels. Advanced Optical Materials, 2015, 3, 1710-1717.	7.3	78
28	Electronic Skins Based on Liquid Metals. Proceedings of the IEEE, 2019, 107, 2168-2184.	21.3	77
29	Microfluidic Manipulation of Core/Shell Nanoparticles for Oral Delivery of Chemotherapeutics: A New Treatment Approach for Colorectal Cancer. Advanced Materials, 2016, 28, 4134-4141.	21.0	74
30	Self-Assembled Ultrathin Gold Nanowires as Highly Transparent, Conductive and Stretchable Supercapacitor. Electroanalysis, 2016, 28, 1298-1304.	2.9	73
31	Soft Wearable Healthcare Materials and Devices. Advanced Healthcare Materials, 2021, 10, e2100577.	7.6	71
32	Investigation of gelation mechanism of an injectable hydrogel based on chitosan by rheological measurements for a drug delivery application. Soft Matter, 2012, 8, 7128.	2.7	70
33	A Soft Resistive Acoustic Sensor Based on Suspended Standing Nanowire Membranes with Point Crack Design. Advanced Functional Materials, 2020, 30, 1910717.	14.9	68
34	Black Gold: Broadband, High Absorption of Visible Light for Photochemical Systems. Advanced Functional Materials, 2017, 27, 1604080.	14.9	67
35	Ultrathin Plasmene Nanosheets as Soft and Surface-Attachable SERS Substrates with High Signal Uniformity. Advanced Optical Materials, 2015, 3, 919-924.	7.3	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. Analytical Chemistry, 2019, 91, 13521-13527.	6.5	66

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37	Unconventional Janus Properties of Enokitake-like Gold Nanowire Films. <i>ACS Nano</i> , 2018, 12, 8717-8722.	14.6	65
38	Multiscale Soft-Hard Interface Design for Flexible Hybrid Electronics. <i>Advanced Materials</i> , 2020, 32, e1902278.	21.0	65
39	Fractal Gold Nanoframework for Highly Stretchable Transparent Strain-Insensitive Conductors. <i>Nano Letters</i> , 2018, 18, 3593-3599.	9.1	62
40	A Moss-Inspired Electroless Gold-Coating Strategy Toward Stretchable Fiber Conductors by Dry Spinning. <i>Advanced Electronic Materials</i> , 2019, 5, 1800462.	5.1	62
41	Skin inspired fractal strain sensors using a copper nanowire and graphite microflake hybrid conductive network. <i>Nanoscale</i> , 2016, 8, 16596-16605.	5.6	60
42	Vertical Gold Nanowires Stretchable Electrochemical Electrodes. <i>Analytical Chemistry</i> , 2018, 90, 13498-13505.	6.5	58
43	Copper Nanowire-Filled Soft Elastomer Composites for Applications as Thermal Interface Materials. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700387.	3.7	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.	3.0	56
45	Patterning Vertically Grown Gold Nanowire Electrodes for Intrinsically Stretchable Organic Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800509.	5.1	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.	8.0	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.	10.2	46
48	A General Approach to Free-Standing Nanoassemblies via Acoustic Levitation Self-Assembly. <i>ACS Nano</i> , 2019, 13, 5243-5250.	14.6	46
49	Free-Standing Bilayered Nanoparticle Superlattice Nanosheets with Asymmetric Ionic Transport Behaviors. <i>ACS Nano</i> , 2015, 9, 11218-11224.	14.6	45
50	Free-Standing 2D Nanoassemblies. <i>Advanced Functional Materials</i> , 2020, 30, 1902301.	14.9	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.	3.1	42
52	2D Freestanding Janus Gold Nanocrystal Superlattices. <i>Advanced Materials</i> , 2019, 31, e1900989.	21.0	38
53	Self-assembly and characterization of 2D plasmene nanosheets. <i>Nature Protocols</i> , 2019, 14, 2691-2706.	12.0	37
54	Tumor cell-specific photothermal killing by SELEX-derived DNA aptamer-targeted gold nanorods. <i>Nanoscale</i> , 2016, 8, 187-196.	5.6	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.	3.6	34
56	Intrinsically Stretchable Fuel Cell Based on Enokitake-Like Standing Gold Nanowires. <i>Advanced Energy Materials</i> , 2020, 10, 1903512.	19.5	34
57	Matryoshka-caged gold nanorods: Synthesis, plasmonic properties, and catalytic activity. <i>Nano Research</i> , 2016, 9, 415-423.	10.4	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.	10.2	30
59	Tunable Broadband Optical Responses of Substrate-Supported Metal/Dielectric/Metal Nanospheres. <i>Plasmonics</i> , 2014, 9, 659-672.	3.4	28
60	2D Binary Plasmonic Nanoassemblies with Semiconductor n/p-Doping-Like Properties. <i>Advanced Materials</i> , 2018, 30, e1801118.	21.0	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.	11.9	26
63	Humidity-Responsive Single-Nanoparticle-Layer Plasmonic Films. <i>Advanced Materials</i> , 2017, 29, 1606796.	21.0	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.	4.3	24
65	Ultraflexible plasmonic nanocomposite aerogel. <i>RSC Advances</i> , 2011, 1, 1265.	3.6	23
66	Plasmene Metasurface Absorbers: Electromagnetic Hot Spots and Hot Carriers. <i>ACS Photonics</i> , 2019, 6, 314-321.	6.6	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.	10.3	23
68	Design of Stretchable Holey Gold Biosensing Electrode for Real-Time Cell Monitoring. <i>ACS Sensors</i> , 2020, 5, 3165-3171.	7.8	22
69	Skin-Like Stretchable Fuel Cell Based on Gold-Nanowire-Impregnated Porous Polymer Scaffolds. <i>Small</i> , 2020, 16, e2003269.	10.0	22
70	Electronic Skin Wearable Sensors for Detecting Lumbar-Pelvic Movements. <i>Sensors</i> , 2020, 20, 1510.	3.8	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.	2.8	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.	5.5	19

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73	Covalent-Cross-Linked Plasmene Nanosheets. ACS Nano, 2019, 13, 6760-6769.	14.6	19
74	Embedding Pinhole Vertical Gold Nanowire Electronic Skins for Braille Recognition. Small, 2019, 15, e1804853.	10.0	19
75	Shape Transformation of Constituent Building Blocks within Self-Assembled Nanosheets and Nano-origami. ACS Nano, 2018, 12, 1014-1022.	14.6	18
76	Liquidâ€“Solid Interfacial Assemblies of Soft Materials for Functional Freestanding Layered Membraneâ€“Based Devices toward Electrochemical Energy Systems. Advanced Energy Materials, 2019, 9, 1804005.	19.5	18
77	Polyelectrolyte Nanocomposite Membranes, Based on Chitosan-phosphotungstic Acid Complex and Montmorillonite for Fuel Cells Applications. Journal of Macromolecular Science - Physics, 2013, 52, 1226-1241.	1.0	17
78	A pH-responsive asymmetric lipid vesicle as drug carrier. Journal of Microencapsulation, 2016, 33, 663-668.	2.8	17
79	Soft gold nanowire sponge antenna for battery-free wireless pressure sensors. Nanoscale, 2021, 13, 3957-3966.	5.6	17
80	Fineâ€“tuning Au@Pd Nanocrystals for Maximum Plasmonâ€“Enhanced Catalysis. Advanced Materials Interfaces, 2021, 8, 2001686.	3.7	17
81	Effect of Organic Modification on Multiwalled Carbon Nanotube Dispersions in Highly Concentrated Emulsions. ACS Omega, 2019, 4, 6647-6659.	3.5	16
82	A gold nanowire-integrated soft wearable system for dynamic continuous non-invasive cardiac monitoring. Biosensors and Bioelectronics, 2022, 205, 114072.	10.1	15
83	Effect of Incorporation of Multiwalled Carbon Nanotubes on the Microstructure and Flow Behavior of Highly Concentrated Emulsions. ACS Omega, 2018, 3, 13584-13597.	3.5	14
84	Grapheneâ€“Enhanced 3D Chemical Mapping of Biological Specimens at Nearâ€“Atomic Resolution. Advanced Functional Materials, 2018, 28, 1801439.	14.9	14
85	Substrate-Mediated Broadband Tunability in Plasmonic Resonances of Metal Nanoantennas on Finite High-Permittivity Dielectric Substrate. Plasmonics, 2015, 10, 1663-1673.	3.4	13
86	Dual effect of F-actin targeted carrier combined with antimetabolic drug on aggressive colorectal cancer cytoskeleton: Allying dissimilar cell cytoskeleton disrupting mechanisms. International Journal of Pharmaceutics, 2016, 513, 464-472.	5.2	13
87	Direct Imaging of Liquidâ€“Nanoparticle Interfaces with Atom Probe Tomography. Journal of Physical Chemistry C, 2020, 124, 19389-19395.	3.1	13
88	Development of ultrasmall chitosan/succinyl Î²â€“cyclodextrin nanoparticles as a sustained proteinâ€“delivery system. Journal of Applied Polymer Science, 2014, 131, .	2.6	12
89	DNA based strategy to nanoparticle superlattices. Methods, 2014, 67, 215-226.	3.8	12
90	Soft Plasmonics: Design, Fabrication, Characterization, and Applications. Advanced Optical Materials, 2022, 10, 2101436.	7.3	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.	8.0	11
92	Site-specific Ag coating on concave Au nanoarrows by controlling the surfactant concentration. <i>Nanoscale Horizons</i> , 2019, 4, 940-946.	8.0	11
93	Highly Selective Nanostructured Electrochemical Sensor Utilizing Densely Packed Ultrathin Gold Nanowires Film. <i>Electroanalysis</i> , 2020, 32, 1850-1858.	2.9	11
94	Enhanced enzymatic degradation resistance of plasmid DNA in ionic liquids. <i>RSC Advances</i> , 2015, 5, 43839-43844.	3.6	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.	3.1	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.	12.2	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.	1.9	9
98	Orientation-Dependent Soft Plasmonics of Gold Nanobipyramid Plasmonic Nanosheets. <i>Nano Letters</i> , 2021, 21, 389-396.	9.1	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.	2.8	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.	3.5	8
101	3D Printed Anchoring Sutures for Permanent Shaping of Tissues. <i>Macromolecular Bioscience</i> , 2017, 17, 1700304.	4.1	7
102	Self-Assembled Plasmonic Pyramids from Anisotropic Nanoparticles for High-Efficient SERS. <i>Journal of Analysis and Testing</i> , 2017, 1, 335-343.	5.1	7
103	Soft, Disruptive and Wearable Electrochemical Biosensors. <i>Current Analytical Chemistry</i> , 2022, 18, 689-704.	1.2	7
104	Catfish-like Mesostructured Silica Fibers Decorated with Gold Nanowires: Synthesis, Characterization, and Application as Stretchable Sensors. <i>ChemPlusChem</i> , 2019, 84, 1031-1038.	2.8	6
105	Enzyme-like electrocatalysis from 2D gold nanograin-nanocube assemblies. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 24-34.	9.4	6
106	Smart materials and devices for electronic textiles. <i>MRS Bulletin</i> , 2021, 46, 488-490.	3.5	6
107	Thermoresponsive chiral plasmonic nanoparticles. <i>Nanoscale</i> , 2022, 14, 4292-4303.	5.6	6
108	An Adaptive Soft Plasmonic Nanosheet Resonator. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800302.	8.7	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.	5.5	5
110	Two-Dimensional Nanoassemblies from Plasmonic Matryoshka Nanoframes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27753-27762.	3.1	5
111	Sensors: Mimosaâ€Inspired Design of a Flexible Pressure Sensor with Touch Sensitivity (Small 16/2015). <i>Small</i> , 2015, 11, 1885-1885.	10.0	4
112	Self-Luminous Fiber-Reinforced Polymer Composites for Structural Applications. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, 04014120.	2.9	4
113	Functional Graphene Derivatives for Chemotherapy-Based Synergistic Tumor Therapy. <i>Nano</i> , 2019, 14, 1930006.	1.0	4
114	Cell Sheetâ€Like Soft Nanoreactor Arrays. <i>Advanced Materials</i> , 2022, 34, e2105630.	21.0	4
115	SERS: Ultrathin Plasmene Nanosheets as Soft and Surface-Attachable SERS Substrates with High Signal Uniformity (Advanced Optical Materials 7/2015). <i>Advanced Optical Materials</i> , 2015, 3, 918-918.	7.3	3
116	Mechanically-gated electrochemical ionic channels with chemically modified vertically aligned gold nanowires. <i>IScience</i> , 2021, 24, 103307.	4.1	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.	2.5	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.	2.8	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