

# Natalie Artzi

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

3,221  
citations

201385

27  
h-index

197535

49  
g-index

65  
all docs

65  
docs citations

65  
times ranked

5795  
citing authors

#	ARTICLE	IF	CITATIONS
1	Local triple-combination therapy results in tumour regression and prevents recurrence in a colon cancer model. <i>Nature Materials</i> , 2016, 15, 1128-1138.	13.3	383
2	In vivo and in vitro tracking of erosion in biodegradable materials using non-invasive fluorescence imaging. <i>Nature Materials</i> , 2011, 10, 890-890.	13.3	313
3	Designing Hydrogels for On-Demand Therapy. <i>Accounts of Chemical Research</i> , 2017, 50, 669-679.	7.6	239
4	Self-assembled RNA-triple-helix hydrogel scaffold for microRNA modulation in the tumour microenvironment. <i>Nature Materials</i> , 2016, 15, 353-363.	13.3	231
5	Overcoming the translational barriers of tissue adhesives. <i>Nature Reviews Materials</i> , 2020, 5, 310-329.	23.3	213
6	Dual Targeted Immunotherapy via In Vivo Delivery of Biohybrid RNAi-Peptide Nanoparticles to Tumor-Associated Macrophages and Cancer Cells. <i>Advanced Functional Materials</i> , 2015, 25, 4183-4194.	7.8	196
7	Dual-Color Emissive Upconversion Nanocapsules for Differential Cancer Bioimaging <i>In Vivo</i> . <i>ACS Nano</i> , 2016, 10, 1512-1521.	7.3	157
8	Local microRNA delivery targets Palladin and prevents metastatic breast cancer. <i>Nature Communications</i> , 2016, 7, 12868.	5.8	127
9	Implantable hydrogel embedded dark-gold nanoswitch as a theranostic probe to sense and overcome cancer multidrug resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1278-87.	3.3	124
10	3D hydrogel scaffold doped with 2D graphene materials for biosensors and bioelectronics. <i>Biosensors and Bioelectronics</i> , 2017, 89, 187-200.	5.3	112
11	Aldehyde-Amine Chemistry Enables Modulated Biosealants with Tissue-Specific Adhesion. <i>Advanced Materials</i> , 2009, 21, 3399-3403.	11.1	104
12	Hydrogel Doped with Nanoparticles for Local Sustained Release of siRNA in Breast Cancer. <i>Advanced Healthcare Materials</i> , 2015, 4, 271-280.	3.9	102
13	Mechanism of erosion of nanostructured porous silicon drug carriers in neoplastic tissues. <i>Nature Communications</i> , 2015, 6, 6208.	5.8	97
14	Hydrogel Nanocomposites with Independently Tunable Rheology and Mechanics. <i>ACS Nano</i> , 2017, 11, 2598-2610.	7.3	69
15	Characterization of Star Adhesive Sealants Based On PEG/Dextran Hydrogels. <i>Macromolecular Bioscience</i> , 2009, 9, 754-765.	2.1	65
16	Target-responsive DNA/RNA nanomaterials for microRNA sensing and inhibition: The jack-of-all-trades in cancer nanotheranostics?. <i>Advanced Drug Delivery Reviews</i> , 2015, 81, 169-183.	6.6	63
17	Viscoelastic adhesive mechanics of aldehyde-mediated soft tissue sealants. <i>Biomaterials</i> , 2008, 29, 4584-4591.	5.7	61
18	Regulation of dendrimer/dextran material performance by altered tissue microenvironment in inflammation and neoplasia. <i>Science Translational Medicine</i> , 2015, 7, 272ra11.	5.8	61

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19	Are RNAi and miRNA therapeutics truly dead?. Trends in Biotechnology, 2015, 33, 141-144.	4.9	47
20	Personalizing Biomaterials for Precision Nanomedicine Considering the Local Tissue Microenvironment. Advanced Healthcare Materials, 2015, 4, 1584-1599.	3.9	44
21	Tumor-Associated Tertiary Lymphoid Structures: Gene-Expression Profiling and Their Bioengineering. Frontiers in Immunology, 2017, 8, 767.	2.2	42
22	Prolonged Local In Vivo Delivery of Stimuli-Responsive Nanogels That Rapidly Release Doxorubicin in Triple-Negative Breast Cancer Cells. Advanced Healthcare Materials, 2020, 9, e1901101.	3.9	36
23	Tuning adhesion failure strength for tissue-specific applications. Acta Biomaterialia, 2011, 7, 67-74.	4.1	35
24	Bioresponsive antisense DNA gold nanobeacons as a hybrid in vivo theranostics platform for the inhibition of cancer cells and metastasis. Scientific Reports, 2015, 5, 12297.	1.6	35
25	Natural Tissue Microenvironmental Conditions Modulate Adhesive Material Performance. Langmuir, 2012, 28, 15402-15409.	1.6	32
26	RNAi nanomaterials targeting immune cells as an anti-tumor therapy: the missing link in cancer treatment?. Materials Today, 2016, 19, 29-43.	8.3	31
27	Enabling Consistency in Pluripotent Stem Cell-Derived Products for Research and Development and Clinical Applications Through Material Standards. Stem Cells Translational Medicine, 2015, 4, 217-223.	1.6	30
28	Immunology-Guided Biomaterial Design for Mucosal Cancer Vaccines. Advanced Materials, 2020, 32, e1903847.	11.1	29
29	Biomaterials for Abrogating Metastasis: Bridging the Gap between Basic and Translational Research. Advanced Healthcare Materials, 2016, 5, 2312-2319.	3.9	14
30	Sustained Efficacy and Arterial Drug Retention by a Fast Drug Eluting Cross-Linked Fatty Acid Coronary Stent Coating. Annals of Biomedical Engineering, 2016, 44, 276-286.	1.3	14
31	Scale-up manufacturing of gelatin-based microcarriers for cell therapy. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2937-2949.	1.6	14
32	Microneedle-Based Local Delivery of CCL22 and IL-2 Enriches T <sub>H</sub> Homing to the Skin Allograft and Enables Temporal Monitoring of Immunotherapy Efficacy. Advanced Functional Materials, 2021, 31, 2100128.	7.8	13
33	The landscape of receptor-mediated precision cancer combination therapy via a single-cell perspective. Nature Communications, 2022, 13, 1613.	5.8	12
34	Delivery of Stimulator of Interferon Genes (STING) Agonist Using Polypeptide-Modified Dendrimer Nanoparticles in the Treatment of Melanoma. Advanced NanoBiomed Research, 2021, 1, 2100006.	1.7	11
35	A Spheroid Model of Early and Late-Stage Osteosarcoma Mimicking the Divergent Relationship between Tumor Elimination and Bone Regeneration. Advanced Healthcare Materials, 2022, 11, e2101296.	3.9	10
36	Revisiting the "One Material Fits All" Rule for Cancer Nanotherapy. Trends in Biotechnology, 2016, 34, 618-626.	4.9	8

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37	Tuning of Collagen Scaffold Properties Modulates Embedded Endothelial Cell Regulatory Phenotype in Repair of Vascular Injuries In Vivo. <i>Advanced Healthcare Materials</i> , 2015, 4, 2220-2228.	3.9	7
38	Sticking with the Pattern for a Safer Glue. <i>Science Translational Medicine</i> , 2013, 5, .	5.8	6
39	Osterix- $\alpha$ Cherry Expression Allows for Early Bone Detection in a Calvarial Defect Model. <i>Advanced Biology</i> , 2019, 3, e1900184.	3.0	4
40	Matrix-Embedded Endothelial Cells Attain a Progenitor-Like Phenotype. <i>Advanced Biology</i> , 2017, 1, 1700057.	3.0	4
41	The next generation of smart gold nanobeacons: nanotheranostics is ready for prime time. <i>Nanomedicine</i> , 2015, 10, 1535-1538.	1.7	3
42	Materializing Personalized Medicine. <i>Advanced Materials</i> , 2020, 32, e1908065.	11.1	3
43	Trojan siRNA Opens the Door to Chemotherapy. <i>Science Translational Medicine</i> , 2013, 5, .	5.8	3
44	Aldehyde-Amine Chemistry Enables Tissue Adhesive Materials to Respond to Physiologic Variation and Pathologic States. <i>Israel Journal of Chemistry</i> , 2013, 53, n/a-n/a.	1.0	1
45	Tracking of Drug Release and Material Fate for Naturally Derived Omega-3 Fatty Acid Biomaterials. <i>Annals of Biomedical Engineering</i> , 2016, 44, 782-792.	1.3	1
46	Cell-Substrate Interactions: Tuning of Collagen Scaffold Properties Modulates Embedded Endothelial Cell Regulatory Phenotype in Repair of Vascular Injuries In Vivo (Adv. Healthcare Mater. 15/2015). <i>Advanced Healthcare Materials</i> , 2015, 4, 2180-2180.	3.9	0
47	Cancer Therapy: Biomaterials for Abrogating Metastasis: Bridging the Gap between Basic and Translational Research (Adv. Healthcare Mater. 18/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 2452-2452.	3.9	0
48	Matrix-Embedded Cells: Matrix-Embedded Endothelial Cells Attain a Progenitor-Like Phenotype (Adv. Tj ETQq000 rgBT0/Overlock	3.0	0
49	Abstract 2688: The landscape of precision cancer combination therapy: a single-cell perspective. , 2021, , .		0
50	Engineered devices for tumor microenvironment immune modulation. , 2022, , 135-154.		0
51	Dead or Alive? Nanopatrols Report. <i>Science Translational Medicine</i> , 2013, 5, .	5.8	0
52	The Dendrimer SEALS: Infiltrate, Search and Destroy. <i>Science Translational Medicine</i> , 2013, 5, .	5.8	0
53	Sugar Coat It. <i>Science Translational Medicine</i> , 2013, 5, .	5.8	0
54	Bioprinting: Beyond the Natural Order of Creation. <i>Science Translational Medicine</i> , 2013, 5, .	5.8	0

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55	Nanospherical Scouts on the Lookout for Circulating Tumor Cells. Science Translational Medicine, 2014, 6, .	5.8	0
56	Golden Cage for Triggered Release. Science Translational Medicine, 2014, 6, .	5.8	0