Mohammad Vatankhah-Varnosfaderani

List of Publications by Year
in descending order

14 papers	1,022 citations	759233 12 h-index	1058476 14 g-index
14 all docs	14 docs citations	14 times ranked	1372 citing authors

#	Article	IF	Citations
1	Chameleon-like elastomers with molecularly encoded strain-adaptive stiffening and coloration. Science, 2018, 359, 1509-1513.	12.6	345
2	Mimicking biological stressâ€“strain behaviour with synthetic elastomers. Nature, 2017, 549, 497-501.	27.8	286
3	Programming temporal shapeshifting. Nature Communications, 2016, 7, 12919.	12.8	72
4	Bottlebrush Bridge between Soft Gels and Firm Tissues. ACS Central Science, 2020, 6, 413-419.	11.3	56
5	Injectable bottlebrush hydrogels with tissue-mimetic mechanical properties. Science Advances, 2022, 8, eabm2469.	10.3	53
6	Universal Coatings Based on Zwitterionicâ€“Dopamine Copolymer Microgels. ACS Applied Materials & Interfaces, 2018, 10, 20869-20875.	8.0	49
7	Dynamics of Bottlebrush Networks. Macromolecules, 2016, 49, 8009-8017.	4.8	36
8	Strained Bottlebrushes in Super-Soft Physical Networks. ACS Macro Letters, 2019, 8, 530-534.	4.8	32
9	Injectable non-leaching tissue-mimetic bottlebrush elastomers as an advanced platform for reconstructive surgery. Nature Communications, 2021, 12, 3961.	12.8	32
10	Understanding the Synthesis of Linearâ€“Bottlebrushâ€“Linear Block Copolymers: Toward Plastomers with Well-Defined Mechanical Properties. Macromolecules, 2020, 53, 8324-8332.	4.8	19
11	Tissue-Mimetic Dielectric Actuators: Free-Standing, Stable, and Solvent-Free. ACS Applied Polymer Materials, 2020, 2, 1741-1745.	4.4	19
12	Encoding tissue mechanics in silicone. Science Robotics, 2018, 3, .	17.6	12
13	Mechanically Diverse Gels with Equal Solvent Content. ACS Central Science, 2022, 8, 845-852.	11.3	10
14	Computationally Driven Design of Soft Materials with Tissue-like Mechanical Properties. ACS Symposium Series, 2018, , 33-50.	0.5	1