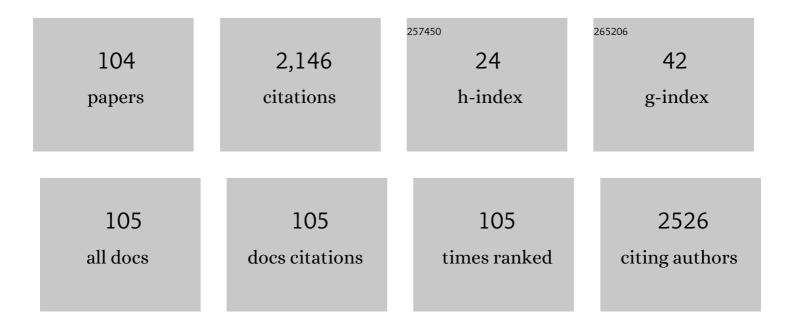
Tarmo Tamm

List of Publications by Year in descending order

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Ταρμό Τάμμ

#	Article	IF	CITATIONS
1	The importance of potential range choice on the electromechanical response of cellulose - carbon nanotube fibers. Synthetic Metals, 2022, 283, 116966.	3.9	3
2	A Self-Commutated Helical Polypyrrole Actuator Fabricated by Filament Patterning. IEEE Robotics and Automation Letters, 2022, 7, 5858-5865.	5.1	0
3	Tuning the linear actuation of multiwall carbon nanotube fibers with carbide-derived carbon. Synthetic Metals, 2022, 288, 117099.	3.9	1
4	Polypyrrole and poly(3,4-ethylenedioxythiophene) on silicon cantilever: Role of formation potential in bending displacement. Synthetic Metals, 2021, 271, 116653.	3.9	3
5	Antagonist Concepts of Polypyrrole Actuators: Bending Hybrid Actuator and Mirrored Trilayer Linear Actuator. Polymers, 2021, 13, 861.	4.5	5
6	The Use of Laminates of Commercially Available Fabrics for Anti-Stab Body-Armor. Polymers, 2021, 13, 1077.	4.5	9
7	A New Direction in Microfluidics: Printed Porous Materials. Micromachines, 2021, 12, 671.	2.9	4
8	Ion Mobility in Thick and Thin Poly-3,4 Ethylenedioxythiophene Films—From EQCM to Actuation. Polymers, 2021, 13, 2448.	4.5	0
9	Metabolism Control in 3D-Printed Living Materials Improves Fermentation. ACS Applied Bio Materials, 2021, 4, 7195-7203.	4.6	11
10	A Kirigami Approach of Patterning Membrane Actuators. Polymers, 2021, 13, 125.	4.5	2
11	Wider Potential Windows of Cellulose Multiwall Carbon Nanotube Fibers Leading to Qualitative Multifunctional Changes in an Organic Electrolyte. Polymers, 2021, 13, 4439.	4.5	4
12	Polypyrrole oated fiberâ€scaffolds: Concurrent linear actuation and sensing. Journal of Applied Polymer Science, 2020, 137, 48533.	2.6	15
13	Cellulose-Multiwall Carbon Nanotube Fiber Actuator Behavior in Aqueous and Organic Electrolyte. Materials, 2020, 13, 3213.	2.9	9
14	Consistent response from conducting polymer actuators: Potential window and embedded charges to avoid mixed ion transport. Synthetic Metals, 2020, 268, 116502.	3.9	8
15	Multifunctionality of Polypyrrole Polyethyleneoxide Composites: Concurrent Sensing, Actuation and Energy Storage. Polymers, 2020, 12, 2060.	4.5	8
16	A Biomimetic Approach to Increasing Soft Actuator Performance by Friction Reduction. Polymers, 2020, 12, 1120.	4.5	4
17	Concept of an artificial muscle design on polypyrrole nanofiber scaffolds. PLoS ONE, 2020, 15, e0232851.	2.5	19
18	Fabrication of Carbon-Based Ionic Electromechanically Active Soft Actuators. Journal of Visualized Experiments, 2020, , .	0.3	3

TARMO TAMM

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19	Physical Confinement Impacts Cellular Phenotypes within Living Materials. ACS Applied Bio Materials, 2020, 3, 4273-4281.	4.6	30
20	Understanding the Behavior of Fully Non-Toxic Polypyrrole-Gelatin and Polypyrrole-PVdF Soft Actuators with Choline Ionic Liquids. Actuators, 2020, 9, 40.	2.3	10
21	Cell‣aden Hydrogels for Multikingdom 3D Printing. Macromolecular Bioscience, 2020, 20, e2000121.	4.1	29
22	Printed PEDOT:PSS Trilayer: Mechanism Evaluation and Application in Energy Storage. Materials, 2020, 13, 491.	2.9	4
23	Role of polyethylene oxide content in polypyrrole linear actuators. Materials Today Communications, 2020, 23, 100908.	1.9	11
24	Improving the Electrochemical Performance and Stability of Polypyrrole by Polymerizing Ionic Liquids. Polymers, 2020, 12, 136.	4.5	7
25	Electromechanically active polymer actuators based on biofriendly choline ionic liquids. Smart Materials and Structures, 2020, 29, 055021.	3.5	16
26	Electrochemomechanical Behavior of Polypyrrole-Coated Nanofiber Scaffolds in Cell Culture Medium. Polymers, 2019, 11, 1043.	4.5	9
27	Hardware and Software Development for Isotonic Strain and Isometric Stress Measurements of Linear Ionic Actuators. Polymers, 2019, 11, 1054.	4.5	18
28	Comparative Analysis of Fluorinated Anions for Polypyrrole Linear Actuator Electrolytes. Polymers, 2019, 11, 849.	4.5	25
29	Encapsulation of ionic electromechanically active polymer actuators. Smart Materials and Structures, 2019, 28, 074002.	3.5	10
30	Solvent effects on carbide-derived-carbon trilayer bending actuators. Synthetic Metals, 2019, 247, 170-176.	3.9	4
31	Role of polymerization temperature on the performance of polypyrrole/dodecylbenzenesulphonate linear actuators. Synthetic Metals, 2019, 247, 53-58.	3.9	15
32	Thin ink-jet printed trilayer actuators composed of PEDOT:PSS on interpenetrating polymer networks. Sensors and Actuators B: Chemical, 2018, 258, 1072-1079.	7.8	40
33	Optimal phosphotungstinate concentration for polypyrrole linear actuation and energy storage. Multifunctional Materials, 2018, 1, 014003.	3.7	9
34	Fe-Doped ZnO nanoparticle toxicity: assessment by a new generation of nanodescriptors. Nanoscale, 2018, 10, 21985-21993.	5.6	23
35	Influence of solvent on linear polypyrrole–polyethylene oxide actuators. Journal of Applied Polymer Science, 2018, 135, 46831.	2.6	9
36	Effect of contact material and ambient humidity on the performance of MWCNT/PDMS multimodal deformation sensors. Sensors and Actuators A: Physical, 2018, 283, 1-8.	4.1	8

TARMO TAMM

37 38	Actuation increase in polypyrrole bilayer by photo-activated dopants. Synthetic Metals, 2018, 246, 57-63. Mechanical and electro-mechanical properties of EAP actuators with inkjet printed electrodes. Synthetic Metals, 2018, 246, 122-127.	3.9 3.9	2
38	Mechanical and electro-mechanical properties of EAP actuators with inkjet printed electrodes. Synthetic Metals, 2018, 246, 122-127.	3.9	
			8
39	Polypyrrole/carbide-derived carbon composite in organic electrolyte: Characterization as a linear actuator. Reactive and Functional Polymers, 2018, 131, 414-419.	4.1	8
40	Carbon–carbon double bond isomerization in heterocyclic hydrazine derivatives. Chemistry of Heterocyclic Compounds, 2018, 54, 572-575.	1.2	1
41	Carbide-derived carbon and poly-3,4-ethylenedioxythiphene composite laminate: linear and bending actuation. Synthetic Metals, 2018, 245, 67-73.	3.9	2
42	Solvent change in polymerization influence linear actuation of polypyrrole carbide-derived carbon films. , 2018, , .		0
43	Poly-3,4-ethylenedixoythiophene on carbide-derived carbon trilayer: combined linear actuation characterization. , 2018, , .		0
44	Polypyrrole polymerized in polyethylene oxide: linear actuation in organic and aqueous electrolytes. , 2018, , .		0
45	In Silico Design of Optimal Dissolution Kinetics of Feâ€Đoped ZnO Nanoparticles Results in Cancerâ€Specific Toxicity in a Preclinical Rodent Model. Advanced Healthcare Materials, 2017, 6, 1601379.	7.6	29
46	An Integrated Data-Driven Strategy for Safe-by-Design Nanoparticles: The FP7 MODERN Project. Advances in Experimental Medicine and Biology, 2017, 947, 257-301.	1.6	6
47	Inkjetâ€printed hybrid conducting polymer-activated carbon aerogel linear actuators driven in an organic electrolyte. Sensors and Actuators B: Chemical, 2017, 250, 44-51.	7.8	21
48	Polypyrrole linear actuation tuned by phosphotungstic acid. Sensors and Actuators B: Chemical, 2017, 247, 742-748.	7.8	21
49	Polypyrrole coatings on gelatin fiber scaffolds: Material and electrochemical characterizations in organic and aqueous electrolyte. Synthetic Metals, 2017, 232, 25-30.	3.9	6
50	Enhancement of polypyrrole linear actuation with poly(ethylene oxide). Synthetic Metals, 2017, 232, 1-7.	3.9	21
51	Identification of several high-risk HPV inhibitors and drug targets with a novel high-throughput screening assay. PLoS Pathogens, 2017, 13, e1006168.	4.7	18
52	Encapsulation of ionic electroactive polymers: reducing the interaction with environment. Proceedings of SPIE, 2016, , .	0.8	3
53	Parametrization of nanoparticles: development of full-particle nanodescriptors. Nanoscale, 2016, 8, 16243-16250.	5.6	30
54	Development of soft and compliant multimodal deformation sensors. Sensors and Actuators A: Physical, 2016, 252, 42-47.	4.1	2

Tarmo Tamm

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55	Electro-chemo-mechanical deformation properties of polypyrrole/dodecylbenzenesulfate linear actuators in aqueous and organic electrolyte. RSC Advances, 2016, 6, 96484-96489.	3.6	28
56	Embedded Carbide-derived Carbon (CDC) particles in polypyrrole (PPy) for linear actuator. Proceedings of SPIE, 2016, , .	0.8	1
57	Carbide-derived carbon in polypyrrole changing the elastic modulus with a huge impact on actuation. RSC Advances, 2016, 6, 26380-26385.	3.6	25
58	Theoretical Modeling of HPV: QSAR and Novodesign with Fragment Approach. Current Computer-Aided Drug Design, 2015, 10, 303-314.	1.2	1
59	PEDOT-PSS/MWCNT coatings on PET for conducting polymer actuators. International Journal of Nanotechnology, 2014, 11, 477.	0.2	3
60	Electrochemomechanical deformation (ECMD) of PPyDBS in free standing film formation and trilayer designs. , 2014, , .		3
61	Carbide-derived carbon (CDC) linear actuator properties in combination with conducting polymers. Proceedings of SPIE, 2014, , .	0.8	0
62	Smart insole sensors for sports and rehabilitation. Proceedings of SPIE, 2014, , .	0.8	5
63	Chitosan Combined with Conducting Polymers for Novel Functionality: Antioxidant and Antibacterial Activity . Key Engineering Materials, 2014, 605, 428-431.	0.4	9
64	Lifetime measurements of ionic electroactive polymer actuators. Journal of Intelligent Material Systems and Structures, 2014, 25, 2267-2275.	2.5	12
65	Influence of ion-exchange on the electrochemical properties of polypyrrole films. Electrochimica Acta, 2014, 122, 79-86.	5.2	29
66	Molecular dynamics modeling the Li-PolystyreneTFSI/PEO blend. Solid State Ionics, 2014, 262, 769-773.	2.7	22
67	Carbide-derived carbon as active interlayer of polypyrrole tri-layer linear actuator. Sensors and Actuators B: Chemical, 2014, 201, 100-106.	7.8	14
68	Electrochemistry of interlayer supported polypyrrole tri-layer linear actuators. Electrochimica Acta, 2014, 122, 322-328.	5.2	14
69	Ionic electroactive polymer artificial muscles in space applications. Scientific Reports, 2014, 4, 6913.	3.3	64
70	Conducting polymer actuators formed on MWCNT and PEDOT-PSS conductive coatings. Synthetic Metals, 2013, 171, 69-75.	3.9	27
71	Two formation mechanisms and renewable antioxidant properties of suspensible chitosan–PPy and chitosan–PPy–BTDA composites. Synthetic Metals, 2013, 164, 6-11.	3.9	15
72	Anisometric charge dependent swelling of porous carbon in an ionic liquid. Electrochemistry Communications, 2013, 34, 196-199.	4.7	59

TARMO TAMM

#	Article	IF	CITATIONS
73	Subchronic Oral and Inhalation Toxicities: a Challenging Attempt for Modeling and Prediction. Molecular Informatics, 2013, 32, 793-801.	2.5	7
74	Direct chemical synthesis of pristine polypyrrole hydrogels and their derived aerogels for high power density energy storage applications. Journal of Materials Chemistry A, 2013, 1, 15216.	10.3	24
75	Renewable antioxidant properties of suspensible chitosan–polypyrrole composites. Reactive and Functional Polymers, 2013, 73, 1072-1077.	4.1	41
76	PEDOT/TBACF3SO3bending actuators based on a PEDOT-PEDOT sandwich complex. , 2013, , .		0
77	In search of better electroactive polymer actuator materials: PPy versus PEDOT versus PEDOT–PPy composites. Smart Materials and Structures, 2013, 22, 104006.	3.5	76
78	Fragment-Based Development of HCV Protease Inhibitors for the Treatment of Hepatitis C. Current Computer-Aided Drug Design, 2012, 8, 55-61.	1.2	13
79	On the Unexpected Cation Exchange Behavior, Caused by Covalent Bond Formation between PEDOT and Cl [–] lons: Extending the Conception for the Polymer–Dopant Interactions. Journal of Physical Chemistry B, 2012, 116, 5491-5500.	2.6	26
80	Molecular dynamics simulations of EMI-BF4 in nanoporous carbon actuators. Journal of Molecular Modeling, 2012, 18, 1541-1552.	1.8	13
81	Combined chemical and electrochemical synthesis methods for metal-free polypyrrole actuators. Sensors and Actuators B: Chemical, 2012, 166-167, 411-418.	7.8	54
82	Application of the QSPR Approach to the Boiling Points of Azeotropes. Journal of Physical Chemistry A, 2011, 115, 3475-3479.	2.5	26
83	Prediction of Cell-Penetrating Peptides Using Artificial Neural Networks. Current Computer-Aided Drug Design, 2010, 6, 79-89.	1.2	49
84	Redoping $\hat{a} \in$ " A simple way to enhance the redoxcapacity of polypyrrole films. Electrochemistry Communications, 2010, 12, 1180-1183.	4.7	8
85	Force field generation and molecular dynamics simulations of Li+–Nafion. Electrochimica Acta, 2010, 55, 2587-2591.	5.2	5
86	Correlation of blood-brain penetration and human serum albumin binding with theoretical descriptors. Arkivoc, 2009, 2008, 38-60.	0.5	12
87	QSAR study of pharmacological permeabilities. Arkivoc, 2009, 2009, 218-238.	0.5	20
88	Study of the factors determining the mobility of ions in the polypyrrole films doped with aromatic sulfonate anions. Electrochimica Acta, 2008, 53, 3828-3835.	5.2	54
89	A new force field for molecular dynamics studies of Li ⁺ and Na ⁺ -nafion. Proceedings of SPIE, 2008, , .	0.8	0
90	Electrochemical properties of the polypyrrole films doped with benzenesulfonate. Synthetic Metals, 2007, 157, 66-73.	3.9	32

Tarmo Tamm

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91	Comparative study of the behavior of anions in polypyrrole films. Electrochimica Acta, 2005, 50, 1523-1528.	5.2	86
92	Complexes of oligopyrrole dications with inorganic anions: a comparative theoretical HF/post-HF study. Synthetic Metals, 2005, 149, 47-52.	3.9	7
93	Study of the Properties of Electrodeposited Polypyrrole Films. Russian Journal of Electrochemistry, 2004, 40, 344-348.	0.9	16
94	Quantitative Measures of Solvent Polarity. ChemInform, 2004, 35, no.	0.0	0
95	Quantitative Measures of Solvent Polarity. Chemical Reviews, 2004, 104, 175-198.	47.7	385
96	Theoretical study of the effect of counterions on the structure of pyrrole oligomers. International Journal of Quantum Chemistry, 2002, 88, 296-301.	2.0	17
97	Influence of Anions on Electrochemical Properties of Polypyrrole-Modified Electrodes. Russian Journal of Electrochemistry, 2002, 38, 182-187.	0.9	32
98	A quantum-mechanical study of oxidized oligopyrroles. International Journal of Quantum Chemistry, 1999, 71, 101-109.	2.0	8
99	A Unified Treatment of Solvent Properties. Journal of Chemical Information and Computer Sciences, 1999, 39, 692-698.	2.8	41
100	QSPR Treatment of Solvent Scales. Journal of Chemical Information and Computer Sciences, 1999, 39, 684-691.	2.8	43
101	QSPR Studies on Vapor Pressure, Aqueous Solubility, and the Prediction of Waterâ~'Air Partition Coefficients. Journal of Chemical Information and Computer Sciences, 1998, 38, 720-725.	2.8	152
102	Development of A Smart Insole System for Gait and Performance Monitoring. , 0, , .		3
103	Dual function composite fibers of cellulose with activated carbon aerogel and carbide derived carbon. Journal of Applied Polymer Science, 0, , 52297.	2.6	1
104	Kinetics of catalyzed dehydrocondensation of hydrogen functionalized siloxane. Journal of Applied Polymer Science, 0, , 52304.	2.6	1