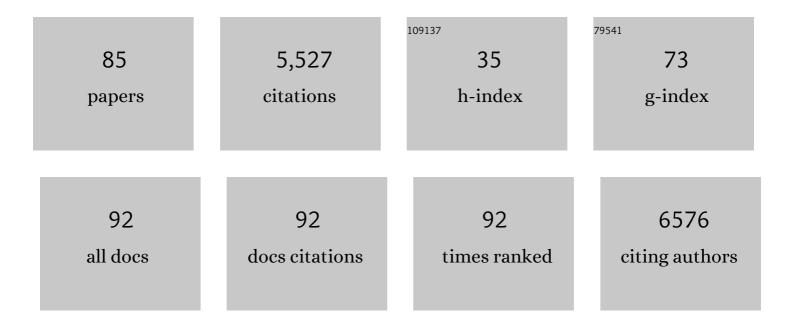
List of Publications by Year in descending order

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MELIK C DEMIDEL

#	Article	IF	CITATIONS
1	Diffusive Dynamic Modes of Recombinant Squid Ring Teeth Proteins by Neutron Spectroscopy. Biomacromolecules, 2022, 23, 3165-3173.	2.6	4
2	Hydration-Induced Structural Transitions in Biomimetic Tandem Repeat Proteins. Journal of Physical Chemistry B, 2021, 125, 2134-2145.	1.2	4
3	Dielectrophoretic separation of randomly shaped protein particles. Separation and Purification Technology, 2021, 262, 118280.	3.9	11
4	Biosynthetic self-healing materials for soft machines. Nature Materials, 2020, 19, 1230-1235.	13.3	189
5	Self-Assembly of Topologically Networked Protein–Ti3C2Tx MXene Composites. ACS Nano, 2020, 14, 6956-6967.	7.3	19
6	Highly Conductive Self-Healing Biocomposites Based on Protein Mediated Self-Assembly of PEDOT:PSS Films. ACS Applied Bio Materials, 2020, 3, 2507-2515.	2.3	14
7	Directed Evolution of Structural Proteins using a High Throughput Approach. Biophysical Journal, 2020, 118, 516a.	0.2	0
8	Squid-Inspired Tandem Repeat Proteins: Functional Fibers and Films. Frontiers in Chemistry, 2019, 7, 69.	1.8	46
9	Research Update: Programmable tandem repeat proteins inspired by squid ring teeth. APL Materials, 2018, 6, .	2.2	18
10	Mechanical Properties of Tandem-Repeat Proteins Are Governed by Network Defects. ACS Biomaterials Science and Engineering, 2018, 4, 884-891.	2.6	26
11	Programmable Proton Conduction in Stretchable and Self-Healing Proteins. Chemistry of Materials, 2018, 30, 898-905.	3.2	43
12	Composites of Proteins and 2D Nanomaterials. Advanced Functional Materials, 2018, 28, 1704990.	7.8	38
13	3D Printing of PDMS Improves Its Mechanical and Cell Adhesion Properties. ACS Biomaterials Science and Engineering, 2018, 4, 682-693.	2.6	119
14	Squid Ring Teeth–coated Mesh Improves Abdominal Wall Repair. Plastic and Reconstructive Surgery - Global Open, 2018, 6, e1881.	0.3	8
15	Tunable thermal transport and reversible thermal conductivity switching in topologically networked bio-inspired materials. Nature Nanotechnology, 2018, 13, 959-964.	15.6	81
16	Inkjet Printing of Selfâ€Assembled 2D Titanium Carbide and Protein Electrodes for Stimuliâ€Responsive Electromagnetic Shielding. Advanced Functional Materials, 2018, 28, 1801972.	7.8	157
17	Ultrafast laser-probing spectroscopy for studying molecular structure of protein aggregates. Analyst, The, 2017, 142, 1434-1441.	1.7	7
18	Programmable molecular composites of tandem proteins with graphene oxide for efficient bimorph actuators. Carbon, 2017, 118, 404-412.	5.4	27

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19	Structural Protein-Based Whispering Gallery Mode Resonators. ACS Photonics, 2017, 4, 2179-2186.	3.2	21
20	Molecular tandem repeat strategy for elucidating mechanical properties of high-strength proteins. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6478-6483.	3.3	63
21	Self-Healing Textile: Enzyme Encapsulated Layer-by-Layer Structural Proteins. ACS Applied Materials & Interfaces, 2016, 8, 20371-20378.	4.0	49
22	Protein-based flexible whispering gallery mode resonators. Proceedings of SPIE, 2016, , .	0.8	3
23	Segmented molecular design of self-healing proteinaceous materials. Scientific Reports, 2015, 5, 13482.	1.6	40
24	A fluidic device with polymeric textured ratchets. Polymer, 2015, 58, 30-35.	1.8	4
25	Remote calorimetric detection of urea via flow injection analysis. Analyst, The, 2015, 140, 8033-8040.	1.7	22
26	Recent Advances in Nanoscale Bioinspired Materials. Macromolecular Bioscience, 2015, 15, 300-311.	2.1	43
27	Biomimicry of the Manduca Sexta Forewing Using SRT Protein Complex for FWMAV Development. Lecture Notes in Computer Science, 2015, , 86-91.	1.0	3
28	Materials Fabrication from Native and Recombinant Thermoplastic Squid Proteins. Advanced Functional Materials, 2014, 24, 7401-7409.	7.8	44
29	Pressure Sensitive Adhesion of an Elastomeric Protein Complex Extracted From Squid Ring Teeth. Advanced Functional Materials, 2014, 24, 6227-6233.	7.8	38
30	Effects of Surface Asymmetry on Neuronal Growth. PLoS ONE, 2014, 9, e106709.	1.1	26
31	Accelerating the design of biomimetic materials by integrating RNA-seq with proteomics and materials science. Nature Biotechnology, 2013, 31, 908-915.	9.4	171
32	Anisotropic wetting on structured surfaces. MRS Bulletin, 2013, 38, 391-396.	1.7	26
33	Stimuli Responsive Release of Metalic Nanoparticles on Semiconductor Substrates. Langmuir, 2012, 28, 5975-5980.	1.6	1
34	Neuronal alignment on asymmetric textured surfaces. Applied Physics Letters, 2012, 101, 143701.	1.5	27
35	Ultrasensitive detection of a protein by optical trapping in a photonicâ€plasmonic microcavity. Journal of Biophotonics, 2012, 5, 629-638.	1.1	69
36	Bioinspired Directional Surfaces for Adhesion, Wetting, and Transport. Advanced Functional Materials, 2012, 22, 2223-2234.	7.8	233

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37	Emerging Technologies for Assembly of Microscale Hydrogels. Advanced Healthcare Materials, 2012, 1, 149-158.	3.9	83
38	A stimuli-responsive coaxial nanofilm for burst release. Soft Matter, 2011, 7, 638-643.	1.2	39
39	Responsive Microgrooves for the Formation of Harvestable Tissue Constructs. Langmuir, 2011, 27, 5671-5679.	1.6	57
40	Fibroblast adhesion on unidirectional polymeric nanofilms. Biointerphases, 2011, 6, 158-163.	0.6	9
41	Catalytic activity of cobalt on nanotextured polymer films for hydrogen production. Journal of Power Sources, 2011, 196, 8553-8560.	4.0	11
42	Nanoparticle-based protein detection by optical shift of a resonant microcavity. Applied Physics Letters, 2011, 99, .	1.5	160
43	Transport of a soft cargo on a nanoscale ratchet. Applied Physics Letters, 2011, 99, 063703.	1.5	37
44	Template-based and template-free preparation of nanostructured parylene via oblique angle polymerization. Thin Solid Films, 2010, 518, 4252-4255.	0.8	28
45	An engineered anisotropic nanofilm with unidirectional wetting properties. Nature Materials, 2010, 9, 1023-1028.	13.3	383
46	Quantitative analysis of creatinine in urine by metalized nanostructured parylene. Journal of Biomedical Optics, 2010, 15, 027004.	1.4	40
47	Mechanical anisotropy of nanostructured parylene films during sliding contact. Journal Physics D: Applied Physics, 2010, 43, 045403.	1.3	27
48	Control of Protein Adsorption onto Coreâ^'Shell Tubular and Vesicular Structures of Diphenylalanine/Parylene. Langmuir, 2010, 26, 1460-1463.	1.6	44
49	Noncovalent Mechanism for the Conformal Metallization of Nanostructured Parylene Films. Langmuir, 2010, 26, 4382-4391.	1.6	17
50	Fabrication and Use of Electroless Plated Polymer Surface-Enhanced Raman Spectroscopy Substrates for Viral Gene Detection. Journal of Physical Chemistry C, 2010, 114, 10730-10738.	1.5	35
51	Highly swellable free-standing hydrogel nanotube forests. Soft Matter, 2010, 6, 1635.	1.2	55
52	Bridging Experiments and Simulations in Oblique Angle Polymerization. Chemical Vapor Deposition, 2009, 15, 101-105.	1.4	7
53	Surface biofunctionalization of nanostructured GeSbSe chalcogenide glass thin films. Journal of Non-Crystalline Solids, 2009, 355, 208-212.	1.5	5
54	Bio-organism sensing via surface enhanced Raman spectroscopy on controlled metal/polymer nanostructured substrates. Biointerphases, 2009, 4, 35-41.	0.6	50

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55	Liquid phase deposition of titania onto nanostructured poly-p-xylylene thin films. Journal of Materials Chemistry, 2009, 19, 4796.	6.7	21
56	Functional Nanostructured Polymer–Metal Interfaces. , 2009, , 357-369.		0
57	Six Emerging Directions in Sculptured-Thin-Film Research. , 2008, , 295-307.		19
58	Catalytic activity of cobalt deposited on nanostructured poly(p-xylylene) films. Journal of Power Sources, 2008, 182, 323-328.	4.0	45
59	Power″aw scaling of structured poly( <i>p</i> â€xylylene) films deposited by oblique angle. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 640-648.	2.4	32
60	Emergent properties of spatially organized poly(p-xylylene) films fabricated by vapor deposition. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 321, 121-124.	2.3	46
61	Surfaceâ€Enhanced Raman Detection on Metalized Nanostructured Poly( <i>p</i> â€xylylene) Films. Advanced Materials, 2008, 20, 3562-3565.	11.1	68
62	Molecular dynamics simulations of Dil-C18(3) in a DPPC lipid bilayer. Physical Chemistry Chemical Physics, 2008, 10, 3548.	1.3	88
63	Novel Nanostructured Hydroxyl-Paracyclophane Thin Films. ECS Transactions, 2007, 3, 17-20.	0.3	2
64	High resolution deformation and damage detection using fluorescent dyes. Journal of Micromechanics and Microengineering, 2007, 17, 2324-2327.	1.5	9
65	Spatially Organized Free-Standing Poly(p-xylylene) Nanowires Fabricated by Vapor Deposition. Langmuir, 2007, 23, 5861-5863.	1.6	31
66	Controlling the Wettability and Adhesion of Nanostructured Poly-(p-xylylene) Films. Langmuir, 2007, 23, 11391-11395.	1.6	74
67	Noncovalent Deposition of Nanoporous Ni Membranes on Spatially Organized Poly( <i>p</i> â€xylylene) Film Templates. Advanced Materials, 2007, 19, 4495-4499.	11.1	34
68	Fibroblast cell attachment and growth on nanoengineered sculptured thin films. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 81B, 219-223.	1.6	42
69	Growth of nanostructured thin films of poly(p-xylylene) derivatives by vapor deposition. Polymer, 2007, 48, 4130-4134.	1.8	40
70	How do insertions affect green fluorescent protein?. Chemical Physics Letters, 2006, 419, 48-54.	1.2	6
71	Clustering and diversity of fluctuations for proteins. Nanomedicine: Nanotechnology, Biology, and Medicine, 2005, 1, 41-46.	1.7	1
72	Growth of sculptured polymer submicronwire assemblies by vapor deposition. Polymer, 2005, 46, 9544-9548.	1.8	85

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73	Molecular Forces in Antibody Maturation. Physical Review Letters, 2005, 95, 208106.	2.9	15
74	Protein Interactions and Fluctuations in a Proteomic Network using an Elastic Network Model. Journal of Biomolecular Structure and Dynamics, 2005, 22, 381-386.	2.0	18
75	Modeling microstructure evolution in three dimensions with Grain3D and LaGriT. Computational Materials Science, 2003, 28, 199-208.	1.4	27
76	Large Scale Statistics for Computational Verification of Grain Growth Simulations with Experiments. Materials Research Society Symposia Proceedings, 2002, 731, 6101.	0.1	0
77	Linking Experimental Characterization and Computational Modeling of Grain Growth in Al-Foil. Journal of Materials Science, 2002, 10, 137-141.	1.2	16
78	Anisotropy of Fluctuation Dynamics of Proteins with an Elastic Network Model. Biophysical Journal, 2001, 80, 505-515.	0.2	1,486
79	Comparison of Experimental and Computational Aspects of Grain Growth in Al-Foil. Materials Research Society Symposia Proceedings, 2000, 652, 1.	0.1	0
80	Relating structure to function through the dominant slow modes of motion of DNA topoisomerase II. International Journal of Quantum Chemistry, 1999, 75, 301-312.	1.0	32
81	Identification of kinetically hot residues in proteins. Protein Science, 1998, 7, 2522-2532.	3.1	114
82	Vibrational Dynamics of Folded Proteins: Significance of Slow and Fast Motions in Relation to Function and Stability. Physical Review Letters, 1998, 80, 2733-2736.	2.9	382
83	Statistical mechanics of Fermi-Pasta-Ulam chains with the canonical ensemble. Physical Review E, 1997, 55, 3727-3730.	0.8	1
84	DYNAMICS OF DISORDERED STRUCTURES: EFFECT OF NON-LINEARITY ON THE LOCALIZATION. Journal of Sound and Vibration, 1997, 205, 372-379.	2.1	7
85	Enhancing sustainability and elasticity of synthetic fibers by tandem repeat proteins. Smart Materials and Structures, 0, , .	1.8	1