

N Sanjeeva Murthy

List of Publications by Year in descending order

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73
papers

2,288
citations

257450

24
h-index

223800

46
g-index

75
all docs

75
docs citations

75
times ranked

2826
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine Learning on a Robotic Platform for the Design of Polymer-Protein Hybrids. <i>Advanced Materials</i> , 2022, 34, e2201809.	21.0	48
2	A multilayered scaffold for regeneration of smooth muscle and connective tissue layers. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 733-744.	4.0	10
3	Tyrosine-derived polycarbonate nerve guidance tubes elicit proregenerative extracellular matrix deposition when used to bridge segmental nerve defects in swine. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 1183-1195.	4.0	9
4	Simulation of SAXS patterns from oriented lamellar structures and their elliptical trajectories. <i>Polymer</i> , 2021, 220, 123566.	3.8	5
5	Thermal processing of a degradable carboxylic acid-functionalized polycarbonate into scaffolds for tissue engineering. <i>Polymer Engineering and Science</i> , 2021, 61, 2012-2022.	3.1	1
6	Comprehensive hydrolytic degradation study of a new poly(ester-amide) used for total meniscus replacement. <i>Polymer Degradation and Stability</i> , 2021, 190, 109617.	5.8	9
7	Control of Drug Release from Microparticles by Tuning Their Crystalline Textures: A Structure-Activity Study. <i>ACS Applied Polymer Materials</i> , 2021, 3, 6548-6561.	4.4	5
8	A step toward engineering thick tissues: Distributing microfibers within 3D printed frames. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 581-591.	4.0	8
9	Disassembly of Nanospheres with a PEG Shell upon Adsorption onto PEGylated Substrates. <i>Langmuir</i> , 2020, 36, 232-241.	3.5	4
10	Structural Investigations of Polycarbonates whose Mechanical and Erosion Behavior Can Be Controlled by Their Isomer Sequence. <i>Macromolecules</i> , 2020, 53, 9878-9889.	4.8	4
11	Calcium phosphate enriched synthetic tyrosine-derived polycarbonate dicalcium phosphate dihydrate polymer scaffolds for enhanced bone regeneration. <i>Materialia</i> , 2020, 9, 100616.	2.7	11
12	Temperature-Activated PEG Surface Segregation Controls the Protein Repellency of Polymers. <i>Langmuir</i> , 2019, 35, 9769-9776.	3.5	7
13	PET-RAFT and SAXS: High Throughput Tools To Study Compactness and Flexibility of Single-Chain Polymer Nanoparticles. <i>Macromolecules</i> , 2019, 52, 8295-8304.	4.8	43
14	Adsorption of Fibrinogen and Fibronectin on Elastomeric Poly(butylene succinate) Copolyesters. <i>Langmuir</i> , 2019, 35, 8850-8859.	3.5	12
15	Achieving molecular orientation in thermally extruded 3D printed objects. <i>Biofabrication</i> , 2019, 11, 045004.	7.1	17
16	Structure of intermediate filament assembly in hair deduced from hydration studies using small-angle neutron scattering. <i>Journal of Structural Biology</i> , 2019, 206, 295-304.	2.8	9
17	A method to deliver patterned electrical impulses to Schwann cells cultured on an artificial axon. <i>Neural Regeneration Research</i> , 2019, 14, 1052.	3.0	3
18	Nonsolvent-induced morphological changes and nanoporosity in poly(l-lactide) films. <i>Soft Matter</i> , 2018, 14, 1492-1498.	2.7	6

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19	Nanospheres with a smectic hydrophobic core and an amorphous PEG hydrophilic shell: structural changes and implications for drug delivery. <i>Soft Matter</i> , 2018, 14, 1327-1335.	2.7	13
20	Substrate micropatterns produced by polymer demixing regulate focal adhesions, actin anisotropy, and lineage differentiation of stem cells. <i>Acta Biomaterialia</i> , 2018, 76, 21-28.	8.3	21
21	Asymmetric flavone-based liquid crystals: synthesis and properties. <i>Liquid Crystals</i> , 2017, 44, 1436-1449.	2.2	8
22	Fibrin glue as a stabilization strategy in peripheral nerve repair when using porous nerve guidance conduits. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 79.	3.6	33
23	Tunable Surface Repellency Maintains Stemness and Redox Capacity of Human Mesenchymal Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22994-23006.	8.0	16
24	Development of hybrid scaffolds with natural extracellular matrix deposited within synthetic polymeric fibers. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2162-2170.	4.0	24
25	Elliptical Small-Angle X-Ray Scattering Patterns from Aligned Lamellar Arrays. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 308-318.	2.1	11
26	Design of barrier coatings on kink-resistant peripheral nerve conduits. <i>Journal of Tissue Engineering</i> , 2016, 7, 204173141662947.	5.5	41
27	Self-Assembly and Critical Aggregation Concentration Measurements of ABA Triblock Copolymers with Varying B Block Types: Model Development, Prediction, and Validation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3666-3676.	2.6	34
28	Competitive Adsorption of Plasma Proteins Using a Quartz Crystal Microbalance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13207-13217.	8.0	39
29	Effects of Terminal Sterilization on PEG-Based Bioresorbable Polymers Used in Biomedical Applications. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1211-1224.	3.6	27
30	Molecular, Crystalline, and Lamellar Length-Scale Changes in the Poly(ϵ -lactide) (PLLA) during Cyclopentanone (CPO) Desorption in PLLA/CPO Cocrystals. <i>Macromolecules</i> , 2016, 49, 224-233.	4.8	40
31	Carbohydrate-Derived Amphiphilic Macromolecules: A Biophysical Structural Characterization and Analysis of Binding Behaviors to Model Membranes. <i>Journal of Functional Biomaterials</i> , 2015, 6, 171-191.	4.4	2
32	Poly(NaSS) Functionalization Modulates the Conformation of Fibronectin and Collagen Type I To Enhance Osteoblastic Cell Attachment onto Ti6Al4V. <i>Langmuir</i> , 2014, 30, 9477-9483.	3.5	41
33	Preliminary analysis of the distribution of water in human hair by small-angle neutron scattering. <i>Journal of Cosmetic Science</i> , 2014, 65, 37-48.	0.1	4
34	Structure of 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)amide Ionic Liquids with Linear, Branched, and Cyclic Alkyl Groups. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15328-15337.	2.6	121
35	Self-Assembly of Left- and Right-Handed Molecular Screws. <i>Journal of the American Chemical Society</i> , 2013, 135, 18762-18765.	13.7	55
36	Structure of Biodegradable Films at Aqueous Surfaces: X-ray Diffraction and Spectroscopy Studies of Polylactides and Tyrosine-Derived Polycarbonates. <i>Langmuir</i> , 2013, 29, 11420-11430.	3.5	13

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37	How Does the Ionic Liquid Organizational Landscape Change when Nonpolar Cationic Alkyl Groups Are Replaced by Polar Isoelectronic Diethers?. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1130-1135.	2.6	134
38	Structure of Hydrated Poly(D,L-lactic acid) Studied with X-ray Diffraction and Molecular Simulation Methods. <i>Macromolecules</i> , 2012, 45, 4896-4906.	4.8	17
39	Temperature-dependent structure of ionic liquids: X-ray scattering and simulations. <i>Faraday Discussions</i> , 2012, 154, 133-143.	3.2	171
40	Hydration-Induced Phase Separation in Amphiphilic Polymer Matrices and its Influence on Voclosporin Release. <i>Journal of Functional Biomaterials</i> , 2012, 3, 745-759.	4.4	3
41	Central small-angle diffuse scattering from fibers is made of two components. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 797-804.	2.1	10
42	ACL reconstruction using a novel hybrid scaffold composed of polyarylate fibers and collagen fibers. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2913-2920.	4.0	18
43	Construction and Validation of All-Atom Bulk-Phase Models of Amorphous Polymers Using the TIGER2/TIGER3 Empirical Sampling Method. <i>Macromolecules</i> , 2011, 44, 5452-5464.	4.8	10
44	Monitoring the Viscoelastic Properties of Skin in Liquid Environments Using Quartz Crystal Microbalance. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 530-535.	3.3	1
45	Communication: X-ray scattering from ionic liquids with pyrrolidinium cations. <i>Journal of Chemical Physics</i> , 2011, 134, 121101.	3.0	127
46	A comparison of degradable synthetic polymer fibers for anterior cruciate ligament reconstruction. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 93A, 738-747.	4.0	23
47	UV laser-ablated surface textures as potential regulator of cellular response. <i>Biointerphases</i> , 2010, 5, 53-59.	1.6	22
48	Poly(ethylene glycol) as a sensitive regulator of cell survival fate on polymeric biomaterials: the interplay of cell adhesion and pro-oxidant signaling mechanisms. <i>Soft Matter</i> , 2010, 6, 5196.	2.7	31
49	Small-angle X-ray scattering investigation of carbon nanotube-reinforced polyacrylonitrile fibers during deformation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 2394-2409.	2.1	20
50	Amorphous orientation and its relationship to processing stages of blended polypropylene/polyethylene fibers. <i>Journal of Applied Polymer Science</i> , 2008, 108, 4047-4057.	2.6	10
51	Structural changes during deformation in carbon nanotube-reinforced polyacrylonitrile fibers. <i>Polymer</i> , 2008, 49, 2133-2145.	3.8	36
52	Hydrogen bonding, mobility, and structural transitions in aliphatic polyamides. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1763-1782.	2.1	200
53	The interaction of ultrasound with particulate composites. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 1449-1456.	1.1	22
54	Effect of molecular orientation on the crystallization and melting behavior in poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	3.8	21

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55	Wholly Aromatic Ether-imides. Potential Materials for n-Type Semiconductors. Chemistry of Materials, 2004, 16, 966-974.	6.7	17
56	Crystal Structure and Properties of N6/AMCC Copolymer from Theory and Fiber XRD. Macromolecules, 2003, 36, 900-907.	4.8	6
57	Effect of melt temperature and skin-core morphology on the mechanical performance of nylon 6. Polymer Engineering and Science, 2002, 42, 940-950.	3.1	27
58	Glass Transition Temperature and the Nature of the Amorphous Phase in Semicrystalline Polymers: Effects of Drawing, Annealing and Hydration in Polyamide 6. International Journal of Polymeric Materials and Polymeric Biomaterials, 2001, 50, 429-444.	3.4	11
59	Javelin-, Hockey Stick-, and Boomerang-Shaped Liquid Crystals. Structural Variations on p-Quinquephenyl. Journal of Physical Chemistry B, 2001, 105, 8845-8860.	2.6	151
60	Poly(ethylene terephthalate)-poly(caprolactone) block copolymer. I. Synthesis, reactive extrusion, and fiber morphology. Journal of Applied Polymer Science, 1999, 74, 1858-1867.	2.6	31
61	Interactions between Crystalline and Amorphous Domains in Semicrystalline Polymers: Å Small-Angle X-ray Scattering Studies of the Brill Transition in Nylon 6,6. Macromolecules, 1999, 32, 5594-5599.	4.8	64
62	Investigation of Brill Transition in Nylon 6 and Nylon 6,6 by Infrared Spectroscopy. Macromolecules, 1998, 31, 8433-8435.	4.8	164
63	International Journal of Polymeric Materials and Polymeric Biomaterials, 1998, 42, 275-283.	3.4	22
64	Fibrillar Structure and its Relevance to Diffusion, Shrinkage, and Relaxation Processes in Nylon Fibers. Textile Research Journal, 1997, 67, 511-520.	2.2	14
65	Multilayered crystalline structures and liquid crystalline phases in a mesogen with siloxane tails. Liquid Crystals, 1995, 19, 557-563.	2.2	12
66	Analysis of X-Ray Diffraction Scans of Poorly Crystallized Semicrystalline Polymers. Advances in X-ray Analysis, 1995, 39, 505-514.	0.0	0
67	Observation of a new high-temperature transition in polytetrafluoroethylene. Macromolecules, 1990, 23, 2488-2494.	4.8	14
68	X-ray diffraction and NMR studies of nylon 6/iodine/potassium iodide complexes and their transformation into the γ crystalline phase. Macromolecules, 1990, 23, 1342-1346.	4.8	32
69	Simultaneous Thermal and Structural Measurements of Oriented Polymers by DSC/XRD Using an Area Detector. Advances in X-ray Analysis, 1988, 32, 617-623.	0.0	1
70	Structure of the iodine columns in iodinated nylon-6. Journal of Polymer Science, Part B: Polymer Physics, 1986, 24, 133-141.	2.1	22
71	Experimental observation of the onset of finite domain boundaries in a simple two-phase system by small-angle x-ray scattering. Macromolecules, 1983, 16, 1943-1944.	4.8	2
72	Order parameter measurements in polypeptide liquid crystals. Journal of Chemical Physics, 1976, 65, 4835-4839.	3.0	49

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73	Polymer Texture Influences Cell Responses in Osteogenic Microparticles. Cellular and Molecular Bioengineering, 0, , .	2.1	0