

Patrick T Mather

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

136
papers

12,371
citations

59
h-index

110
g-index

139
ext. papers

13,165
ext. citations

5.4
avg, IF

6.65
L-index

#	Paper	IF	Citations
136	Profiling the responsiveness of focal adhesions of human cardiomyocytes to extracellular dynamic nano-topography.. <i>Bioactive Materials</i> , 2022 , 10, 367-377	16.7	2
135	Synthesis and Characterization of Zwitterionic Polymer Brush Functionalized Hydrogels with Ionic Responsive Coefficient of Friction. <i>Langmuir</i> , 2020 , 36, 3932-3940	4	3
134	Mechanics and tribology of a zwitterionic polymer blend: Impact of molecular weight. <i>Materials Science and Engineering C</i> , 2020 , 111, 110736	8.3	4
133	Progressive Myofibril Reorganization of Human Cardiomyocytes on a Dynamic Nanotopographic Substrate. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21450-21462	9.5	14
132	Dynamic covalent exchange in poly(thioether anhydrides). <i>Polymer Chemistry</i> , 2020 , 11, 7551-7561	4.9	4
131	Non-uniform curvature and anisotropic deformation control wrinkling patterns on tori. <i>Soft Matter</i> , 2019 , 15, 5204-5210	3.6	10
130	Enzymatically triggered shape memory polymers. <i>Acta Biomaterialia</i> , 2019 , 84, 88-97	10.8	25
129	Entanglement-Based Thermoplastic Shape Memory Polymeric Particles with Photothermal Actuation for Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13333-13341	9.5	39
128	A latent crosslinkable PCL-based polyurethane: Synthesis, shape memory, and enzymatic degradation. <i>Journal of Materials Research</i> , 2018 , 33, 2463-2476	2.5	12
127	Ternary Polymeric Composites Exhibiting Bulk and Surface Quadruple-Shape Memory Properties. <i>ChemPhysChem</i> , 2018 , 19, 2014-2024	3.2	2
126	Tuning of reversible actuation via ROMP-based copolymerization semicrystalline polymers. <i>Polymer</i> , 2018 , 156, 228-239	3.9	8
125	The shape-memory effect in ionic elastomers: fixation through ionic interactions. <i>Soft Matter</i> , 2017 , 13, 2983-2994	3.6	13
124	Hot-compacted interwoven webs of biodegradable polymers. <i>Polymer</i> , 2016 , 101, 127-138	3.9	8
123	Osteogenic Capacity of Human Adipose-Derived Stem Cells is Preserved Following Triggering of Shape Memory Scaffolds. <i>Tissue Engineering - Part A</i> , 2016 , 22, 1026-35	3.9	18
122	Anhydride-Based Reconfigurable Shape Memory Elastomers. <i>ACS Macro Letters</i> , 2016 , 5, 203-207	6.6	51
121	Comparative analysis of shape memory-based self-healing coatings. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1415-1426	2.6	16
120	A hydrogel-forming liquid crystalline elastomer exhibiting soft shape memory. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 38-52	2.6	31

119	Biodegradable Thermoplastic Elastomers Incorporating POSS: Synthesis, Microstructure, and Mechanical Properties. <i>Macromolecules</i> , 2016 , 49, 3769-3779	5.5	32
118	Synthesis and characterization of a zwitterionic hydrogel blend with low coefficient of friction. <i>Acta Biomaterialia</i> , 2016 , 46, 245-255	10.8	25
117	Mechanically programmed shape change in laminated elastomeric composites. <i>Soft Matter</i> , 2015 , 11, 5754-64	3.6	23
116	Dual-Spun Shape Memory Elastomeric Composites. <i>ACS Macro Letters</i> , 2015 , 4, 436-440	6.6	36
115	Photo-induced bending in a light-activated polymer laminated composite. <i>Soft Matter</i> , 2015 , 11, 2673-82	3.6	46
114	Molecular Composite Coatings on Nafion Using Layer-by-Layer Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10365-73	9.5	11
113	Nanoscale Order and Crystallization in POSS/BCL Shape Memory Molecular Networks. <i>Macromolecules</i> , 2015 , 48, 5770-5779	5.5	50
112	Thermoviscoplastic behaviors of anisotropic shape memory elastomeric composites for cold programmed non-affine shape change. <i>Journal of the Mechanics and Physics of Solids</i> , 2015 , 85, 219-244	5	27
111	Interwoven polymer composites via dual-electrospinning with shape memory and self-healing properties. <i>MRS Communications</i> , 2015 , 5, 211-221	2.7	21
110	Fabrication of Polymeric Coatings with Controlled Microtopographies Using an Electrospaying Technique. <i>PLoS ONE</i> , 2015 , 10, e0129960	3.7	22
109	Reversible actuation in main-chain liquid crystalline elastomers with varying crosslink densities. <i>Polymer</i> , 2014 , 55, 5897-5907	3.9	38
108	Preparation and characterization of triple shape memory composite foams. <i>Soft Matter</i> , 2014 , 10, 8066-74	3.4	25
107	Properties of triple shape memory composites prepared via polymerization-induced phase separation. <i>Soft Matter</i> , 2014 , 10, 3112-21	3.6	56
106	A finite deformation thermomechanical constitutive model for triple shape polymeric composites based on dual thermal transitions. <i>International Journal of Solids and Structures</i> , 2014 , 51, 2777-2790	3.1	38
105	Thermally modulated nanostructure of poly(ϵ -caprolactone)/BOSS multiblock thermoplastic polyurethanes. <i>Polymer</i> , 2013 , 54, 3350-3362	3.9	41
104	Mechanisms of triple-shape polymeric composites due to dual thermal transitions. <i>Soft Matter</i> , 2013 , 9, 2212	3.6	58
103	Shape-memory-actuated change in scaffold fiber alignment directs stem cell morphology. <i>Acta Biomaterialia</i> , 2013 , 9, 8790-801	10.8	104
102	Water-triggered shape memory of multiblock thermoplastic polyurethanes (TPUs). <i>RSC Advances</i> , 2013 , 3, 15783	3.7	78

101	In vitro wrinkle formation via shape memory dynamically aligns adherent cells. <i>Soft Matter</i> , 2013 , 9, 4705-6	5.6	49
100	Shape Memory Assisted Self-Healing Coating.. <i>ACS Macro Letters</i> , 2013 , 2, 152-156	6.6	277
99	Evolution of microstructure during shape memory cycling of a main-chain liquid crystalline elastomer. <i>Polymer</i> , 2013 , 54, 2808-2820	3.9	18
98	Design strategies for shape memory polymers. <i>Current Opinion in Chemical Engineering</i> , 2013 , 2, 103-111	5.4	23
97	Anisotropic Shape-Memory Elastomeric Composites: Fabrication and Testing. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 1247-1257	2.6	14
96	Shape memory poly(ϵ -caprolactone)-co-poly(ethylene glycol) foams with body temperature triggering and two-way actuation. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4916-4920	7.3	73
95	Thermomechanical behavior of shape memory elastomeric composites. <i>Journal of the Mechanics and Physics of Solids</i> , 2012 , 60, 67-83	5	72
94	Crosslinkable liquid crystalline copolymers with variable isotropization temperature. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14518		11
93	Entanglement-based shape memory polyurethanes: Synthesis and characterization. <i>Polymer</i> , 2012 , 53, 5924-5934	3.9	91
92	Soft bacterial polyester-based shape memory nanocomposites featuring reconfigurable nanostructure. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 387-393	2.6	37
91	A programmable shape-changing scaffold for regenerative medicine 2012 ,		2
90	Polyhedral oligomeric silsesquioxane (POSS) suppresses enzymatic degradation of PCL-based polyurethanes. <i>Biomacromolecules</i> , 2011 , 12, 3066-77	6.9	57
89	A functionally graded shape memory polymer. <i>Soft Matter</i> , 2011 , 7, 68-74	3.6	87
88	Shape Memory RGD-Containing Networks: Synthesis, Characterization, and Application in Cell Culture. <i>Macromolecular Symposia</i> , 2011 , 309-310, 162-172	0.8	18
87	Microstructure and Phase Behavior of POSS/PCL Shape Memory Nanocomposites. <i>Macromolecules</i> , 2011 , 44, 5682-5692	5.5	75
86	Linear/network poly(ϵ -caprolactone) blends exhibiting shape memory assisted self-healing (SMASH). <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 152-61	9.5	308
85	Metallo-Responsive Liquid Crystalline Monomers and Polymers. <i>Chemistry of Materials</i> , 2011 , 23, 3525-3533	5.3	39
84	Two-way reversible shape memory effects in a free-standing polymer composite. <i>Smart Materials and Structures</i> , 2011 , 20, 065010	3.4	111

83	Dynamic cell behavior on shape memory polymer substrates. <i>Biomaterials</i> , 2011 , 32, 2285-93	15.6	182
82	Constitutive Modeling of Shape Memory Effects in Semicrystalline Polymers With Stretch Induced Crystallization. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2010 , 132,	1.8	76
81	PEG/POSS Multiblock Polyurethanes: Synthesis, Characterization, and Hydrogel Formation. <i>Macromolecules</i> , 2010 , 43, 7637-7649	5.5	107
80	Conductive shape memory nanocomposites for high speed electrical actuation. <i>Soft Matter</i> , 2010 , 6, 2146	3.6	199
79	Sulfonated Polysulfone/POSS Nanofiber Composite Membranes for PEM Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B914	3.9	75
78	Blends of Paclitaxel with POSS-Based Biodegradable Polyurethanes: Morphology, Miscibility, and Specific Interactions. <i>Macromolecules</i> , 2010 , 43, 4991-4999	5.5	30
77	Nanofiber composite membranes with low equivalent weight perfluorosulfonic acid polymers. <i>Journal of Materials Chemistry</i> , 2010 , 20, 6282		80
76	Soft shape memory in main-chain liquid crystalline elastomers. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3449		106
75	In vivo kinetic degradation analysis and biocompatibility of aliphatic polyester polyurethanes. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94A, n/a-n/a	5.4	2
74	High conductivity perfluorosulfonic acid nanofiber composite fuel-cell membranes. <i>ChemSusChem</i> , 2010 , 3, 1245-8	8.3	62
73	Triple-Shape Polymeric Composites (TSPCs). <i>Advanced Functional Materials</i> , 2010 , 20, 2649-2656	15.6	235
72	A thermally responsive, rigid, and reversible adhesive. <i>Polymer</i> , 2010 , 51, 1169-1175	3.9	59
71	In vivo kinetic degradation analysis and biocompatibility of aliphatic polyester polyurethanes. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 94, 333-43	5.4	6
70	POSS Polymers: Physical Properties and Biomaterials Applications. <i>Polymer Reviews</i> , 2009 , 49, 25-63	14	305
69	Nafion Nanofiber Membranes. <i>ECS Transactions</i> , 2009 , 25, 1451-1458	1	21
68	Polypeptide-catalyzed biosilicification of dentin surfaces. <i>Journal of Dental Research</i> , 2009 , 88, 377-81	8.1	8
67	Tailored drug release from biodegradable stent coatings based on hybrid polyurethanes. <i>Journal of Controlled Release</i> , 2009 , 137, 224-33	11.7	100
66	Rapid synthesis of polymer-silica hybrid nanofibers by biomimetic mineralization. <i>Polymer</i> , 2009 , 50, 1214-1222	3.9	27

65	PLGABOSS End-Linked Networks with Tailored Degradation and Shape Memory Behavior. <i>Macromolecules</i> , 2009 , 42, 6596-6605	5.5	68
64	Vertex Group Effects in Entangled PolystyrenePolyhedral Oligosilsesquioxane (POSS) Copolymers. <i>Macromolecules</i> , 2009 , 42, 1142-1152	5.5	80
63	Combined One-Way and Two-Way Shape Memory in a Glass-Forming Nematic Network. <i>Macromolecules</i> , 2009 , 42, 273-280	5.5	153
62	Shape Memory Polymer Research. <i>Annual Review of Materials Research</i> , 2009 , 39, 445-471	12.8	721
61	Antimicrobial properties of nanostructured hydrogel webs containing silver. <i>Biomacromolecules</i> , 2009 , 10, 2686-93	6.9	90
60	A thermoplastic/thermoset blend exhibiting thermal mending and reversible adhesion. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 612-20	9.5	156
59	Preparation and Characterization of Shape Memory Elastomeric Composites. <i>Macromolecules</i> , 2009 , 42, 7251-7253	5.5	131
58	Nanofiber Network Ion-Exchange Membranes. <i>Macromolecules</i> , 2008 , 41, 4569-4572	5.5	152
57	Biodegradable thermoplastic polyurethanes incorporating polyhedral oligosilsesquioxane. <i>Biomacromolecules</i> , 2008 , 9, 2458-67	6.9	132
56	Shape memory polymers with built-in threshold temperature sensors. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1082		201
55	Two-Way Reversible Shape Memory in a Semicrystalline Network. <i>Macromolecules</i> , 2008 , 41, 184-192	5.5	403
54	PolycaprolactoneBOSS Chemical/Physical Double Networks. <i>Macromolecules</i> , 2008 , 41, 4730-4738	5.5	173
53	Improved synthesis of functionalized mesogenic 2,6-bisbenzimidazolylpyridine ligands. <i>Tetrahedron</i> , 2008 , 64, 8488-8495	2.4	25
52	Self-Assembly and Chain-Folding in Hybrid CoilCoilTube Triblock Oligomers of Polyethylene-b-Poly(ethylene oxide)-b-Polyhedral Oligomeric Silsesquioxane. <i>Macromolecules</i> , 2007 , 40, 5460-5470	5.5	58
51	Review of progress in shape-memory polymers. <i>Journal of Materials Chemistry</i> , 2007 , 17, 1543		1510
50	Poly(vinyl alcohol) (PVA)/sulfonated polyhedral oligosilsesquioxane (sPOSS) hybrid membranes for direct methanol fuel cell applications. <i>Polymers for Advanced Technologies</i> , 2007 , 18, 535-543	3.2	72
49	Rheological characterization of asphalt in a temperature-gradient combinatorial squeeze-flow setup. <i>Rheologica Acta</i> , 2007 , 46, 1075-1082	2.3	1
48	Composite Membranes for Hydrogen/Air PEM Fuel Cells. <i>ECS Transactions</i> , 2007 , 11, 79-87	1	4

47	Deformation-Induced Color Changes in Mechanochromic Polyethylene Blends. <i>Macromolecules</i> , 2007 , 40, 2400-2408	5.5	165
46	Telechelic Poly(ethylene glycol)POSS Amphiphiles at the Air/Water Interface. <i>Macromolecules</i> , 2007 , 40, 682-688	5.5	68
45	Combined effect of spin speed and ionic strength on polyelectrolyte spin assembly. <i>Langmuir</i> , 2007 , 23, 12589-97	4	31
44	Rheological Behavior of Entangled PolystyrenePolyhedral Oligosilsesquioxane (POSS) Copolymers. <i>Macromolecules</i> , 2007 , 40, 544-554	5.5	114
43	Directed Mineralization on Polyelectrolyte Multilayer Films. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 975, 1		
42	Molecular dynamics simulations of multilayer polyelectrolyte films: effect of electrostatic and short-range interactions. <i>Langmuir</i> , 2006 , 22, 9994-10002	4	53
41	Morphology, Microstructure, and Rheology of Amphiphilic Telechelics Incorporating Polyhedral Oligosilsesquioxane. <i>Macromolecules</i> , 2006 , 39, 9253-9260	5.5	74
40	Effect of stoichiometry on liquid crystalline supramolecular polymers formed with complementary nucleobase pair interactions. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 5049-5059	2.5	18
39	Modification of bisphenol-A based bismaleimide resin (BPA-BMI) with an allyl-terminated hyperbranched polyimide (AT-PAEKI). <i>Polymer</i> , 2006 , 47, 2813-2821	3.9	70
38	Amphiphilic telechelics with polyhedral oligosilsesquioxane (POSS) end-groups: Dilute solution viscometry. <i>Polymer</i> , 2006 , 47, 6202-6207	3.9	59
37	Molecular dynamics simulations of layer-by-layer assembly of polyelectrolytes at charged surfaces: effects of chain degree of polymerization and fraction of charged monomers. <i>Langmuir</i> , 2005 , 21, 6113-22	4	49
36	Interfacial Tension of a Liquid Crystalline Polymer in an Isotropic Polymer Matrix. <i>Macromolecules</i> , 2005 , 38, 7343-7351	5.5	11
35	Tailored Phase Transitions via Mixed-Mesogen Liquid Crystalline Polymers with Silicon-Based Spacers. <i>Macromolecules</i> , 2005 , 38, 4103-4113	5.5	38
34	Welded Electrochromic Conductive Polymer Nanofibers by Electrostatic Spinning. <i>Advanced Materials</i> , 2005 , 17, 2177-2180	24	102
33	Optically transparent self-reinforced poly(ethylene terephthalate) composites: molecular orientation and mechanical properties. <i>Polymer</i> , 2005 , 46, 761-773	3.9	54
32	Crystallization of POSS in a PEG-Based Multiblock Polyurethane: Toward A Hybrid Hydrogel. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 847, 59		4
31	Polyelectrolyte spin assembly: Influence of ionic strength on the growth of multilayered thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 3654-3666	2.6	75
30	Synthesis and Characterization of Unsaturated Thermotropic Polyesters Prepared via Acyclic Diene Metathesis Polymerization. <i>Macromolecules</i> , 2004 , 37, 5239-5249	5.5	15

29	Hybrid epoxy-based thermosets based on polyhedral oligosilsesquioxane: Cure behavior and toughening mechanisms. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003 , 41, 3299-3313	2.6	121
28	ABA triblock copolymers containing polyhedral oligomeric silsesquioxane pendant groups: synthesis and unique properties. <i>Polymer</i> , 2003 , 44, 2739-2750	3.9	193
27	Shape memory effect exhibited by smectic-C liquid crystalline elastomers. <i>Journal of the American Chemical Society</i> , 2003 , 125, 15300-1	16.4	243
26	Characterization of the cure-state of DGEBA-DDS epoxy using ultrasonic, dynamic mechanical, and thermal probes. <i>Polymer Engineering and Science</i> , 2002 , 42, 51-67	2.3	80
25	Odd-Even Effect of Flexible Spacer Length on Flow-Induced Isotropic-to-Nematic Transition in Segmented Thermotropic Polymers. <i>Macromolecules</i> , 2002 , 35, 1326-1335	5.5	14
24	A New Hyperbranched Poly(arylene ether ketone imide): Synthesis, Chain-End Functionalization, and Blending with a Bis(maleimide). <i>Macromolecules</i> , 2002 , 35, 4951-4959	5.5	51
23	Amphiphilic Telechelics Incorporating Polyhedral Oligosilsesquioxane: 1. Synthesis and Characterization. <i>Macromolecules</i> , 2002 , 35, 8378-8384	5.5	142
22	Effect of Methyl Methacrylate/Polyhedral Oligomeric Silsesquioxane Random Copolymers in Compatibilization of Polystyrene and Poly(methyl methacrylate) Blends. <i>Macromolecules</i> , 2002 , 35, 8029-8038	5.5	107
21	Chemically Cross-Linked Polycyclooctene: Synthesis, Characterization, and Shape Memory Behavior. <i>Macromolecules</i> , 2002 , 35, 9868-9874	5.5	241
20	Structural development during deformation of polyurethane containing polyhedral oligomeric silsesquioxanes (POSS) molecules. <i>Polymer</i> , 2001 , 42, 599-611	3.9	254
19	Reinforcement and environmental degradation of nylon-6/clay nanocomposites. <i>Polymer</i> , 2001 , 42, 5849-5858	3.9	271
18	Phase Behavior, Rheology, and Morphology of Binary Blends of Semiflexible Main-Chain Thermotropic Liquid-Crystalline Polymers. <i>Macromolecules</i> , 2001 , 34, 7152-7161	5.5	5
17	Nanoscale reinforcement of polyhedral oligomeric silsesquioxane (POSS) in polyurethane elastomer. <i>Polymer International</i> , 2000 , 49, 437-440	3.3	170
16	Shape memory and nanostructure in poly(norbornyl-POSS) copolymers. <i>Polymer International</i> , 2000 , 49, 453-457	3.3	178
15	Synthesis and characterization of fluorinated benzoxazole polymers with high T _g and low dielectric constant. <i>Journal of Polymer Science Part A</i> , 2000 , 38, 1991-2003	2.5	46
14	Optical and Mechanical Rheometry of Semiflexible Main-Chain Thermotropic Liquid-Crystalline Polymers with Varying Pendant Groups. <i>Macromolecules</i> , 2000 , 33, 7922-7930	5.5	10
13	Morphological and Rheological Responses to Shear Start-up and Flow Reversal of Thermotropic Liquid-Crystalline Polymers. <i>Macromolecules</i> , 2000 , 33, 7594-7608	5.5	40
12	Mid-wavelength IR (MWIR) polarizers from glassy cholesteric liquid crystals. <i>Liquid Crystals</i> , 1999 , 26, 557-565	2.3	4

11	Rheology of highly swollen chitosan/polyacrylate hydrogels. <i>Polymer</i> , 1999 , 40, 4593-4602	3.9	83
10	Mesogen-jacketed liquid crystalline polymers via stable free radical polymerization. <i>Macromolecular Chemistry and Physics</i> , 1999 , 200, 2338-2344	2.6	48
9	Mechanical Relaxation and Microstructure of Poly(norbornyl-POSS) Copolymers. <i>Macromolecules</i> , 1999 , 32, 1194-1203	5.5	366
8	Viscoelastic and morphological behavior of hybrid styryl-based polyhedral oligomeric silsesquioxane (POSS) copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998 , 36, 1857-1872	3.6	221
7	Synthesis and thermal properties of thermosetting bis-benzocyclobutene-terminated arylene ether monomers. <i>Journal of Polymer Science Part A</i> , 1998 , 36, 2637-2651	2.5	18
6	Rheological and mechanical relaxation behavior of a thermally crosslinkable poly(ethylene terephthalate). <i>Polymer Engineering and Science</i> , 1998 , 38, 1174-1184	2.3	1
5	Rheo-Optical Evidence of a Flow-Induced Isotropic-Nematic Transition in a Thermotropic Liquid-Crystalline Polymer. <i>Macromolecules</i> , 1997 , 30, 7977-7989	5.5	70
4	Thermally crosslinkable thermotropic copolyesters: synthesis, characterization, and processing. <i>Polymer</i> , 1997 , 38, 6009-6022	3.9	8
3	The origin of stress-oscillation damping during start-up and reversal of torsional shearing of nematics. <i>Rheologica Acta</i> , 1997 , 36, 485-497	2.3	2
2	Phase behavior and rheology of blends containing polycarbonate and a thermotropic polyester. <i>Journal of Applied Polymer Science</i> , 1996 , 59, 243-250	2.9	10
1	Synthesis and characterization of a semiflexible liquid crystalline polyester with a broad nematic region. <i>Liquid Crystals</i> , 1994 , 17, 811-826	2.3	9