

Marvin J Slepian

List of Publications by Year in descending order

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Version: 2024-02-01

178
papers

8,827
citations

81743

39
h-index

45213

90
g-index

184
all docs

184
docs citations

184
times ranked

11453
citing authors

#	ARTICLE	IF	CITATIONS
1	A computational framework for post-TAVR cardiac conduction abnormality (CCA) risk assessment in patient-specific anatomy. <i>Artificial Organs</i> , 2022, 46, 1305-1317.	1.0	4
2	Multi-institutional Analysis of 505 Patients With Coronavirus Disease-2019 Supported With Extracorporeal Membrane Oxygenation: Predictors of Survival. <i>Annals of Thoracic Surgery</i> , 2022, 114, 61-68.	0.7	20
3	Visions of TAVR Future: Development and Optimization of a Second Generation Novel Polymeric TAVR. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	0.6	6
4	Smart Phone-Based Motion Capture and Analysis: Importance of Operating Envelope Definition and Application to Clinical Use. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6173.	1.3	6
5	DNA Origami-Platelet Adducts: Nanoconstruct Binding without Platelet Activation. <i>Bioconjugate Chemistry</i> , 2022, 33, 1295-1310.	1.8	5
6	Patient-specific in vitro testing for evaluating TAVR clinical performance—A complementary approach to current ISO standard testing. <i>Artificial Organs</i> , 2021, 45, E41-E52.	1.0	5
7	Vascular endothelial and smooth muscle cell galvanotactic response and differential migratory behavior. <i>Experimental Cell Research</i> , 2021, 399, 112447.	1.2	9
8	Design, Modeling, and Experimental Characterization of A Valveless Pulsatile Flow Mechanical Circulatory Support Device. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2021, 15, .	0.4	1
9	A predictive multiscale model for simulating flow-induced platelet activation: Correlating in silico results with in vitro results. <i>Journal of Biomechanics</i> , 2021, 117, 110275.	0.9	11
10	Platelet Dysfunction During Mechanical Circulatory Support. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 1319-1336.	1.1	25
11	Characterization of the competing role of surface-contact and shear stress on platelet activation in the setting of blood contacting devices. <i>International Journal of Artificial Organs</i> , 2021, 44, 1013-1020.	0.7	2
12	Multi-institutional Analysis of 100 Consecutive Patients with COVID-19 and Severe Pulmonary Compromise Treated with Extracorporeal Membrane Oxygenation: Outcomes and Trends Over Time. <i>ASAIO Journal</i> , 2021, 67, 496-502.	0.9	23
13	Patterned Electrospinning: A Method of Generating Defined Fibrous Constructs Influencing Cell Adhesion and Retention. <i>ACS Applied Bio Materials</i> , 2021, 4, 4084-4093.	2.3	0
14	Evolving perspectives on mechanical circulatory support biocompatibility and interfaces. <i>Annals of Cardiothoracic Surgery</i> , 2021, 10, 396-398.	0.6	4
15	Shear-mediated platelet activation in the free flow II: Evolving mechanobiological mechanisms reveal an identifiable signature of activation and a bi-directional platelet dyscrasia with thrombotic and bleeding features. <i>Journal of Biomechanics</i> , 2021, 123, 110415.	0.9	9
16	Renal Considerations in COVID-19: Biology, Pathology, and Pathophysiology. <i>ASAIO Journal</i> , 2021, 67, 1087-1096.	0.9	5
17	Hemocompatibility of polymers for use in vascular endoluminal implants. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51277.	1.3	5
18	Mechanisms and Pathways of Pain Photobiomodulation: A Narrative Review. <i>Journal of Pain</i> , 2021, 22, 763-777.	0.7	36

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19	Multi-institutional Analysis of 200 COVID-19 Patients treated with ECMO: Outcomes and Trends. <i>Annals of Thoracic Surgery</i> , 2021, , .	0.7	14
20	Shear-Mediated Platelet Activation is Accompanied by Unique Alterations in Platelet Release of Lipids. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 597-612.	1.0	1
21	Electrical impedance vs. light transmission aggregometry: Testing platelet reactivity to antiplatelet drugs using the MICELI POC impedance aggregometer as compared to a commercial predecessor. <i>Thrombosis Research</i> , 2021, 204, 66-75.	0.8	1
22	Highlights from the 66th Annual Meeting of the American Society for Artificial Internal Organs in Washington, DC. <i>Artificial Organs</i> , 2021, 45, 1250-1256.	1.0	0
23	An adaptable and non-invasive method for tracking <i>Bifidobacterium animalis</i> subspecies <i>lactis</i> 420 in the mouse gut. <i>Journal of Microbiological Methods</i> , 2021, 189, 106302.	0.7	1
24	Big Data Analytics + Virtual Clinical Semantic Network (vCSN): An Approach to Addressing the Increasing Clinical Nuances and Organ Involvement of COVID-19. <i>ASAIO Journal</i> , 2021, 67, 18-24.	0.9	1
25	Thrombotic Risk of Rotor Speed Modulation Regimes of Contemporary Centrifugal Continuous-flow Left Ventricular Assist Devices. <i>ASAIO Journal</i> , 2021, 67, 737-745.	0.9	30
26	In Vitro Durability and Stability Testing of a Novel Polymeric Transcatheter Aortic Valve. <i>ASAIO Journal</i> , 2020, 66, 190-198.	0.9	18
27	Circulatory loop design and components introduce artifacts impacting in vitro evaluation of ventricular assist device thrombogenicity: A call for caution. <i>Artificial Organs</i> , 2020, 44, E226-E237.	1.0	4
28	Impella 5.5 Versus Centrimag: A Head-to-Head Comparison of Device Hemocompatibility. <i>ASAIO Journal</i> , 2020, 66, 1142-1151.	0.9	24
29	Advanced Pulmonary and Cardiac Support of COVID-19 Patients. <i>Circulation: Heart Failure</i> , 2020, 13, e007175.	1.6	39
30	Advanced Pulmonary and Cardiac Support of COVID-19 Patients: Emerging Recommendations From ASAIO's "A Living Working Document". <i>ASAIO Journal</i> , 2020, 66, 588-598.	0.9	46
31	Platelet Activation via Shear Stress Exposure Induces a Differing Pattern of Biomarkers of Activation versus Biochemical Agonists. <i>Thrombosis and Haemostasis</i> , 2020, 120, 776-792.	1.8	38
32	Human motion component and envelope characterization via wireless wearable sensors. <i>BMC Biomedical Engineering</i> , 2020, 2, 3.	1.7	7
33	Extracorporeal Membrane Oxygenation in the Treatment of Severe Pulmonary and Cardiac Compromise in Coronavirus Disease 2019: Experience with 32 Patients. <i>ASAIO Journal</i> , 2020, 66, 722-730.	0.9	149
34	The MICELI (MICrofluidic, ELECTRical, Impedance): Prototyping a Point-of-Care Impedance Platelet Aggregometer. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1174.	1.8	4
35	Multiscale Modeling of Blood Flow-Mediated Platelet Thrombosis. , 2020, , 2667-2698.		2
36	Extending the Capabilities of Molecular Force Sensors via DNA Nanotechnology. <i>Critical Reviews in Biomedical Engineering</i> , 2020, 48, 1-16.	0.5	4

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37	Bond Graph Modeling of Mechanical Circulatory Support Deviceâ€™ Cardiovascular System Interactions. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	0.6	0
38	Migration versus proliferation as contributor to in vitro wound healing of vascular endothelial and smooth muscle cells. <i>Experimental Cell Research</i> , 2019, 376, 58-66.	1.2	13
39	The Influence of Polymer Processing Methods on Polymer Film Physical Properties and Vascular Cell Responsiveness. <i>ACS Applied Bio Materials</i> , 2019, 2, 3234-3244.	2.3	4
40	P2Y12 Receptor Antagonists: Do They Really Inhibit Shear-Mediated Platelet Activation within MCS?. <i>Journal of Heart and Lung Transplantation</i> , 2019, 38, S372.	0.3	0
41	Shear-Mediated Platelet Activation Enhances Thrombotic Complications in Patients With LVADs and Is Reversed After Heart Transplantation. <i>ASAIO Journal</i> , 2019, 65, e33-e35.	0.9	14
42	Decreasing Wound Edge Stress Enhances Leader Cell Formation during Collective Smooth Muscle Cell Migration. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3864-3875.	2.6	8
43	Prothrombotic activity of cytokine-activated endothelial cells and shear-activated platelets in the setting of ventricular assist device support. <i>Journal of Heart and Lung Transplantation</i> , 2019, 38, 658-667.	0.3	17
44	Surface Modification of Electrospun Scaffolds for Endothelialization of Tissue-Engineered Vascular Grafts Using Human Cord Blood-Derived Endothelial Cells. <i>Journal of Clinical Medicine</i> , 2019, 8, 185.	1.0	30
45	Device Thrombogenicity Emulation: An In Silico Predictor of In Vitro and In Vivo Ventricular Assist Device Thrombogenicity. <i>Scientific Reports</i> , 2019, 9, 2946.	1.6	15
46	A Big-Data Approach to Defining Breathing Signatures for Identifying Respiratory Disease. , 2019, , .		0
47	Identification and quantitation of clinically relevant microbes in patient samples: Comparison of three k-mer based classifiers for speed, accuracy, and sensitivity. <i>PLoS Computational Biology</i> , 2019, 15, e1006863.	1.5	17
48	LVAD Pulsatility Assesses Cardiac Contractility: In Vitro Model Utilizing the Total Artificial Heart and Mock Circulation. <i>ASAIO Journal</i> , 2019, 65, 580-586.	0.9	2
49	Novel Polymeric Valve for Transcatheter Aortic Valve Replacement Applications: In Vitro Hemodynamic Study. <i>Annals of Biomedical Engineering</i> , 2019, 47, 113-125.	1.3	50
50	Blood damage in Left Ventricular Assist Devices: Pump thrombosis or system thrombosis?. <i>International Journal of Artificial Organs</i> , 2019, 42, 113-124.	0.7	28
51	Peripheral VA-ECMO with direct biventricular decompression for refractory cardiogenic shock. <i>Perfusion (United Kingdom)</i> , 2018, 33, 493-495.	0.5	14
52	Which Antiplatelet Therapy in Patients With Left Ventricular Assist Device and Aspirin Allergy?. <i>Annals of Thoracic Surgery</i> , 2018, 105, e47-e49.	0.7	2
53	Platelet activation is a preoperative risk factor for the development of thromboembolic complications in patients with continuousâ€™flow left ventricular assist device. <i>European Journal of Heart Failure</i> , 2018, 20, 792-800.	2.9	40
54	Routine clinical anti-platelet agents have limited efficacy in modulating hypershear-mediated platelet activation associated with mechanical circulatory support. <i>Thrombosis Research</i> , 2018, 163, 162-171.	0.8	15

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55	Stretchable Electronic Wearable Motion Sensors Delineate Signatures of Human Motion Tasks. <i>ASAIO Journal</i> , 2018, 64, 351-359.	0.9	9
56	Relation between blood pressure and pulse wave velocity for human arteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11144-11149.	3.3	193
57	Design Effect of Metallic (Durable) and Polymeric (Resorbable) Stents on Blood Flow and Platelet Activation. <i>Artificial Organs</i> , 2018, 42, 1148-1156.	1.0	2
58	Microfluidic flow-based platforms for induction and analysis of dynamic shear-mediated platelet activation—Initial validation versus the standardized hemodynamic shearing device. <i>Biomicrofluidics</i> , 2018, 12, 042208.	1.2	8
59	Comparative Fluid–Structure Interaction Analysis of Polymeric Transcatheter and Surgical Aortic Valves' Hemodynamics and Structural Mechanics. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	34
60	Multiscale Modeling of Blood Flow-Mediated Platelet Thrombosis. , 2018, , 1-32.		1
61	A multiscale biomechanical model of platelets: Correlating with in-vitro results. <i>Journal of Biomechanics</i> , 2017, 50, 26-33.	0.9	45
62	A Physical Heart Failure Simulation System Utilizing the Total Artificial Heart and Modified Donovan Mock Circulation. <i>Artificial Organs</i> , 2017, 41, E52-E65.	1.0	8
63	Food-Based Edible and Nutritive Electronics. <i>Advanced Materials Technologies</i> , 2017, 2, 1700181.	3.0	61
64	Microfluidic platforms for the evaluation of anti-platelet agent efficacy under hyper-shear conditions associated with ventricular assist devices. <i>Medical Engineering and Physics</i> , 2017, 48, 31-38.	0.8	9
65	High Frequency Components of Hemodynamic Shear Stress Profiles are a Major Determinant of Shear-Mediated Platelet Activation in Therapeutic Blood Recirculating Devices. <i>Scientific Reports</i> , 2017, 7, 4994.	1.6	36
66	Ventricular Assist Device Implantation Configurations Impact Overall Mechanical Circulatory Support System Thrombogenic Potential. <i>ASAIO Journal</i> , 2017, 63, 285-292.	0.9	16
67	Sildenafil Is Associated With Reduced Device Thrombosis and Ischemic Stroke Despite Low-Level Hemolysis on Heart Mate II Support. <i>Circulation: Heart Failure</i> , 2017, 10, .	1.6	23
68	Shear-mediated platelet activation in the free flow: Perspectives on the emerging spectrum of cell mechanobiological mechanisms mediating cardiovascular implant thrombosis. <i>Journal of Biomechanics</i> , 2017, 50, 20-25.	0.9	61
69	Welcome to the 24th Annual Meeting of Our Society: Evolving to the International Society for Mechanical Circulatory Support. <i>Artificial Organs</i> , 2017, 41, 888-889.	1.0	0
70	Remote Ischemic Conditioning. <i>Journal of the American Podiatric Medical Association</i> , 2017, 107, 313-317.	0.2	4
71	Regulation of Cardiac Autonomic Nervous System Control across Frailty Statuses: A Systematic Review. <i>Gerontology</i> , 2016, 62, 3-15.	1.4	60
72	First North American 50 cc Total Artificial Heart Experience: Conversion from a 70 cc Total Artificial Heart. <i>ASAIO Journal</i> , 2016, 62, e43-e45.	0.9	2

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73	Effect of Balloon-Expandable Transcatheter Aortic Valve Replacement Positioning: A Patient-Specific Numerical Model. <i>Artificial Organs</i> , 2016, 40, E292-E304.	1.0	41
74	A novel big-data processing framework for healthcare applications: Big-data-healthcare-in-a-box. , 2016, , .		13
75	Plantar Fat Grafting and Tendon Balancing for the Diabetic Foot Ulcer in Remission. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2016, 4, e810.	0.3	14
76	Aspirin has limited ability to modulate shear-mediated platelet activation associated with elevated shear stress of ventricular assist devices. <i>Thrombosis Research</i> , 2016, 140, 110-117.	0.8	31
77	Multifunctional Epidermal Sensor Systems with Ultrathin Encapsulation Packaging for Health Monitoring. <i>Microsystems and Nanosystems</i> , 2016, , 193-205.	0.1	2
78	Hemolysate-mediated platelet aggregation: an additional risk mechanism contributing to thrombosis of continuous flow ventricular assist devices. <i>Perfusion (United Kingdom)</i> , 2016, 31, 401-408.	0.5	20
79	A soft, wearable microfluidic device for the capture, storage, and colorimetric sensing of sweat. <i>Science Translational Medicine</i> , 2016, 8, 366ra165.	5.8	933
80	Epidermal mechano-acoustic sensing electronics for cardiovascular diagnostics and human-machine interfaces. <i>Science Advances</i> , 2016, 2, e1601185.	4.7	310
81	Reactive Oxygen Species-Associated Molecular Signature Predicts Survival in Patients with Sepsis. <i>Pulmonary Circulation</i> , 2016, 6, 196-201.	0.8	25
82	Microfluidic Approaches for the Assessment of Blood Cell Trauma: A Focus on Thrombotic Risk in Mechanical Circulatory Support Devices. <i>International Journal of Artificial Organs</i> , 2016, 39, 184-193.	0.7	17
83	Application of big-data in healthcare analytics - Prospects and challenges. , 2016, , .		11
84	Case Report: Disparate flow in HeartMate II patient with extensive left ventricle repair. <i>Perfusion (United Kingdom)</i> , 2016, 31, 349-352.	0.5	0
85	Repetitive Hypershear Activates and Sensitizes Platelets in a Dose-Dependent Manner. <i>Artificial Organs</i> , 2016, 40, 586-595.	1.0	25
86	Cybersecurity Regulation of Wireless Devices for Performance and Assurance in the Age of "Medjacking". <i>Journal of Diabetes Science and Technology</i> , 2016, 10, 435-438.	1.3	13
87	Dielectrophoresis-Mediated Electrodeformation as a Means of Determining Individual Platelet Stiffness. <i>Annals of Biomedical Engineering</i> , 2016, 44, 903-913.	1.3	28
88	Microfluidic emulation of mechanical circulatory support device shear-mediated platelet activation. <i>Biomedical Microdevices</i> , 2015, 17, 117.	1.4	22
89	Collective cell migration of smooth muscle and endothelial cells: impact of injury versus non-injury stimuli. <i>Journal of Biological Engineering</i> , 2015, 9, 19.	2.0	16
90	Physiological Characterization of the SynCardia Total Artificial Heart in a Mock Circulation System. <i>ASAIO Journal</i> , 2015, 61, 274-281.	0.9	22

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91	Robotic Left Ventricular Assist Device Implantation Using Left Thoracotomy Approach in Patients with Previous Sternotomies. <i>ASAIO Journal</i> , 2015, 61, e44-e46.	0.9	8
92	Conformal piezoelectric systems for clinical and experimental characterization of soft tissue biomechanics. <i>Nature Materials</i> , 2015, 14, 728-736.	13.3	387
93	Zebrafish swimming behavior as a biomarker for ototoxicity-induced hair cell damage: a high-throughput drug development platform targeting hearing loss. <i>Translational Research</i> , 2015, 166, 440-450.	2.2	33
94	Catheter-Based Systems With Integrated Stretchable Sensors and Conductors in Cardiac Electrophysiology. <i>Proceedings of the IEEE</i> , 2015, 103, 682-689.	16.4	33
95	Shear-mediated platelet activation in patients implanted with continuous flow LVADs: A preliminary study utilizing the platelet activity state (PAS) assay. , 2015, 2015, 1255-8.		8
96	The platelet hammer: In vitro platelet activation under repetitive hypershear. , 2015, 2015, 262-5.		3
97	Simulation of transcatheter aortic valve replacement in patient-specific aortic roots: Effect of crimping and positioning on device performance. , 2015, 2015, 282-5.		10
98	A phenomenological particle-based platelet model for simulating filopodia formation during early activation. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2015, 31, e02702.	1.0	27
99	Hemocompatibility of Poly(vinyl alcohol)-Gelatin Core-Shell Electrospun Nanofibers: A Scaffold for Modulating Platelet Deposition and Activation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8302-8312.	4.0	52
100	Physical Characterization and Platelet Interactions under Shear Flows of a Novel Thermoset Polyisobutylene-based Co-polymer. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 22058-22066.	4.0	18
101	Epidermal devices for noninvasive, precise, and continuous mapping of macrovascular and microvascular blood flow. <i>Science Advances</i> , 2015, 1, e1500701.	4.7	189
102	Hemodynamic and thrombogenic analysis of a trileaflet polymeric valve using a fluid-structure interaction approach. <i>Journal of Biomechanics</i> , 2015, 48, 3641-3649.	0.9	51
103	Core-shell PVA/gelatin electrospun nanofibers promote human umbilical vein endothelial cell and smooth muscle cell proliferation and migration. <i>Acta Biomaterialia</i> , 2015, 27, 77-87.	4.1	67
104	Advances in Techniques for Probing Mechanoregulation of Tissue Morphogenesis. <i>Journal of the Association for Laboratory Automation</i> , 2015, 20, 127-137.	2.8	8
105	Sticking with Synthetic Tissue Sealants. <i>New England Journal of Medicine</i> , 2014, 370, 1556-1559.	13.9	3
106	Thromboresistance Comparison of the HeartMate II Ventricular Assist Device With the Device Thrombogenicity Emulation-Optimized HeartAssist 5 VAD. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 021014.	0.6	73
107	Robotic-Assisted Implantation of Ventricular Assist Device After Sternectomy and Pectoralis Muscle Flap. <i>ASAIO Journal</i> , 2014, 60, 742-743.	0.9	4
108	Home Discharge and Out-of-Hospital Follow-Up of Total Artificial Heart Patients Supported by a Portable Driver System. <i>ASAIO Journal</i> , 2014, 60, 148-153.	0.9	11

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109	Thrombus Formation Patterns in the HeartMate II Ventricular Assist Device. <i>ASAIO Journal</i> , 2014, 60, 237-240.	0.9	52
110	Stent thrombosis after aggressive post resuscitation care: The beginning or the end?. <i>Resuscitation</i> , 2014, 85, 711-713.	1.3	3
111	How to do it: Thoracoscopic left ventricular assist device implantation using robot assistance. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 147, 1423-1425.	0.4	8
112	Core-shell nanofibers: Integrating the bioactivity of gelatin and the mechanical property of polyvinyl alcohol. <i>Biopolymers</i> , 2014, 101, 336-346.	1.2	41
113	Comparative efficacy of in vitro and in vivo metabolized aspirin in the DeBakey ventricular assist device. <i>Journal of Thrombosis and Thrombolysis</i> , 2014, 37, 499-506.	1.0	18
114	Numerical Model of Full-Cardiac Cycle Hemodynamics in a Total Artificial Heart and the Effect of Its Size on Platelet Activation. <i>Journal of Cardiovascular Translational Research</i> , 2014, 7, 788-796.	1.1	20
115	Conformal piezoelectric energy harvesting and storage from motions of the heart, lung, and diaphragm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1927-1932.	3.3	720
116	Numerical model of total artificial heart hemodynamics and the effect of its size on stress accumulation. , 2014, 2014, 5651-4.		1
117	Single cell gene expression analysis in injury-induced collective cell migration. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 192-202.	0.6	28
118	Multiscale Particle-Based Modeling of Flowing Platelets in Blood Plasma Using Dissipative Particle Dynamics and Coarse Grained Molecular Dynamics. <i>Cellular and Molecular Bioengineering</i> , 2014, 7, 552-574.	1.0	56
119	Shear- vs. nanotopography-guided control of growth of endothelial cells on RGD-nanoparticle-nanowell arrays. <i>Journal of Biological Engineering</i> , 2013, 7, 11.	2.0	5
120	Gelatin shells strengthen polyvinyl alcohol core-shell nanofibers. <i>Polymer</i> , 2013, 54, 6003-6007.	1.8	31
121	The Syncardia total artificial heart: in vivo, in vitro, and computational modeling studies. <i>Journal of Biomechanics</i> , 2013, 46, 266-275.	0.9	71
122	Device thrombogenicity emulation: A novel methodology for optimizing the thromboresistance of cardiovascular devices. <i>Journal of Biomechanics</i> , 2013, 46, 338-344.	0.9	47
123	Potential role of oral anticoagulants in the treatment of patients with coronary artery disease: focus on dabigatran. <i>Expert Review of Cardiovascular Therapy</i> , 2013, 11, 1259-1267.	0.6	6
124	Linear fibroblast alignment on sinusoidal wave micropatterns. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 104, 318-325.	2.5	37
125	Simulation of Platelets Suspension Flowing Through a Stenosis Model Using a Dissipative Particle Dynamics Approach. <i>Annals of Biomedical Engineering</i> , 2013, 41, 2318-2333.	1.3	31
126	Evaluation of Shear-Induced Platelet Activation Models Under Constant and Dynamic Shear Stress Loading Conditions Relevant to Devices. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1279-1296.	1.3	96

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127	Comparative Studies of Axial Ventricular Assist Devices (VAD) and the Effect of Outflow Cannulation. , 2013, , .		0
128	In Vitro Evaluation of Shear-Induced Platelet Activation in the MicroMed DeBakey Ventricular Assist Device With Antiplatelet Therapy. , 2013, , .		0
129	Design Optimization of a Novel Polymeric Prosthetic Heart Valve and a Ventricular Assist Device via Device Thrombogenicity Emulation. , 2013, , .		0
130	Multiscale Modeling of Flow Induced Thrombogenicity Using Dissipative Particle Dynamics and Molecular Dynamics. , 2013, , .		0
131	Multiscale Modeling of Flow Induced Thrombogenicity With Dissipative Particle Dynamics and Molecular Dynamics. Journal of Medical Devices, Transactions of the ASME, 2013, 7, 0209541-209542.	0.4	5
132	In Vitro Evaluation of a Novel Hemodynamically Optimized Trileaflet Polymeric Prosthetic Heart Valve. Journal of Biomechanical Engineering, 2013, 135, 021021.	0.6	53
133	Toward Optimization of a Novel Trileaflet Polymeric Prosthetic Heart Valve via Device Thrombogenicity Emulation. ASAIO Journal, 2013, 59, 275-283.	0.9	40
134	Results with an Anticoagulation Protocol in 99 SynCardia Total Artificial Heart Recipients. ASAIO Journal, 2013, 59, 216-220.	0.9	27
135	Nanowell- Trapped Charged Ligand- Bearing Nanoparticle Surfaces: A Novel Method of Enhancing Flow- Resistant Cell Adhesion. Advanced Healthcare Materials, 2013, 2, 1019-1027.	3.9	8
136	Biomaterials: Nanowell- Trapped Charged Ligand- Bearing Nanoparticle Surfaces: A Novel Method of Enhancing Flow- Resistant Cell Adhesion (Adv. Healthcare Mater. 7/2013). Advanced Healthcare Materials, 2013, 2, 1064-1064.	3.9	0
137	Multiscale Modeling of Flow Induced Thrombogenicity With Dissipative Particle Dynamics (DPD) and Molecular Dynamics (MD). , 2013, , .		0
138	Interaction With Nanoscale Topography: The Use of Nanowell-Trapped Charged Ligand-Bearing Nanoparticle Surfaces To Modulate Physiological Focal Adhesions in Endothelial Cells. , 2013, , .		0
139	Platelet Activity State in Human, Bovine, and Ovine Species Under Constant Shear Stress: A Comparative Study. , 2013, , .		1
140	Platelet Activity of Coaxial Electrospun Scaffolds for Applications in Cardiovascular Tissue Engineering. , 2013, , .		0
141	Electronic sensor and actuator webs for large-area complex geometry cardiac mapping and therapy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19910-19915.	3.3	209
142	A Physically Transient Form of Silicon Electronics. Science, 2012, 337, 1640-1644.	6.0	1,085
143	Nuclear factor kappa B (NF- κ B): A novel cause for diabetes, coronary artery disease and cancer initiation and promotion?. Medical Hypotheses, 2012, 78, 29-32.	0.8	41
144	Polymeric trileaflet prosthetic heart valves: evolution and path to clinical reality. Expert Review of Medical Devices, 2012, 9, 577-594.	1.4	54

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145	Device Thrombogenicity Emulation: A Novel Method for Optimizing Mechanical Circulatory Support Device Thromboresistance. PLoS ONE, 2012, 7, e32463.	1.1	86
146	Thrombogenicity Comparison of Axial Ventricular Assist Devices by DTE Methodology: MicroMed HeartAssist 5 and Thoratec Heartmate II. , 2012, , .		0
147	Non-antibacterial tetracyclines modulate mediators of periodontitis and atherosclerotic cardiovascular disease: A mechanistic link between local and systemic inflammation. Pharmacological Research, 2011, 64, 573-579.	3.1	55
148	Materials for multifunctional balloon catheters with capabilities in cardiac electrophysiological mapping and ablation therapy. Nature Materials, 2011, 10, 316-323.	13.3	670
149	Multifunctional balloon catheters of the future. Interventional Cardiology, 2011, 3, 417-419.	0.0	12
150	Design Optimization of Rotary Blood Pumps: Alternatives to Anticoagulation Therapy. , 2011, , .		0
151	Dynamic Numerical and Experimental Evaluation of Trileaflet Polymer Prosthetic Heart Valves. , 2011, , .		0
152	The effect of subantimicrobial-dose doxycycline periodontal therapy on serum biomarkers of systemic inflammation. Journal of the American Dental Association, 2011, 142, 262-273.	0.7	73
153	Device Thrombogenicity Emulator (DTE) â” Design optimization methodology for cardiovascular devices: A study in two bileaflet MHV designs. Journal of Biomechanics, 2010, 43, 2400-2409.	0.9	107
154	Device Malfunction of the CardioWest Total Artificial Heart Secondary to Catheter Entrapment of the Tricuspid Valve. ASAIO Journal, 2010, 56, 481-482.	0.9	24
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