

Scott L Diamond

List of Publications by Year in descending order

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Version: 2024-02-01

214
papers

9,415
citations

36691

53
h-index

56606

87
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217
all docs

217
docs citations

217
times ranked

12864
citing authors

#	ARTICLE	IF	CITATIONS
1	A 1Dâ€“3D Hybrid Model of Patient-Specific Coronary Hemodynamics. <i>Cardiovascular Engineering and Technology</i> , 2022, 13, 331-342.	0.7	6
2	Predicting risk for trauma patients using static and dynamic information from the MIMIC III database. <i>PLoS ONE</i> , 2022, 17, e0262523.	1.1	1
3	A three-dimensional multiscale model for the prediction of thrombus growth under flow with single-platelet resolution. <i>PLoS Computational Biology</i> , 2022, 18, e1009850.	1.5	13
4	Cangrelor PK/PD analysis in postâ€“operative neonatal cardiac patients at risk for thrombosis. <i>Journal of Thrombosis and Haemostasis</i> , 2021, 19, 202-211.	1.9	3
5	Intrathrombus Fibrin Attenuates Spatial Sorting of Phosphatidylserine Exposing Platelets during Clotting Under Flow. <i>Thrombosis and Haemostasis</i> , 2021, 121, 046-057.	1.8	6
6	Point of care whole blood microfluidics for detecting and managing thrombotic and bleeding risks. <i>Lab on A Chip</i> , 2021, 21, 3667-3674.	3.1	7
7	Characterisation and application of recombinant FVIIIâ€“neutralising antibodies from haemophilia A inhibitor patients. <i>British Journal of Haematology</i> , 2021, 193, 976-987.	1.2	3
8	Shear-driven rolling of DNA-adhesive microspheres. <i>Biophysical Journal</i> , 2021, 120, 2102-2111.	0.2	3
9	Thrombosis and hemodynamics: External and intrathrombus gradients. <i>Current Opinion in Biomedical Engineering</i> , 2021, 19, 100316.	1.8	4
10	Sensitivity analysis of a reduced model of thrombosis under flow: Roles of Factor IX, Factor XI, and Î²â€“Fibrin. <i>PLoS ONE</i> , 2021, 16, e0260366.	1.1	2
11	Microfluidic hemophilia models using blood from healthy donors. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2020, 4, 54-63.	1.0	4
12	Scalable manufacture of a disposable, storage-stable eight-channel microfluidic device for rapid testing of platelet, coagulation, and drug function under whole blood flow. <i>Biomicrofluidics</i> , 2020, 14, 054103.	1.2	5
13	Core and shell platelets of a thrombus: A new microfluidic assay to study mechanics and biochemistry. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2020, 4, 1158-1166.	1.0	12
14	D-Dimer and Fibrin Degradation Products Impair Platelet Signaling: Plasma D-Dimer Is a Predictor and Mediator of Platelet Dysfunction During Trauma. <i>Journal of Applied Laboratory Medicine</i> , 2020, 5, 1253-1264.	0.6	9
15	Src family kinases inhibition by dasatinib blocks initial and subsequent platelet deposition on collagen under flow, but lacks efficacy with thrombin generation. <i>Thrombosis Research</i> , 2020, 192, 141-151.	0.8	8
16	Using the National Trauma Data Bank (NTDB) and machine learning to predict trauma patient mortality at admission. <i>PLoS ONE</i> , 2020, 15, e0242166.	1.1	15
17	Title is missing!. , 2020, 15, e0242166.		0
18	Title is missing!. , 2020, 15, e0242166.		0

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19	Title is missing!. , 2020, 15, e0242166.		0
20	Title is missing!. , 2020, 15, e0242166.		0
21	Reduced model to predict thrombin and fibrin during thrombosis on collagen/tissue factor under venous flow: Roles of β -fibrin and factor XIa. PLoS Computational Biology, 2019, 15, e1007266.	1.5	23
22	Platelet dysfunction during trauma involves diverse signaling pathways and an inhibitory activity in patient-derived plasma. Journal of Trauma and Acute Care Surgery, 2019, 86, 250-259.	1.1	49
23	Fibrin Modulates Shear-Induced NETosis in Sterile Occlusive Thrombi Formed under Haemodynamic Flow. Thrombosis and Haemostasis, 2019, 119, 586-593.	1.8	17
24	Microfluidic and computational study of structural properties and resistance to flow of blood clots under arterial shear. Biomechanics and Modeling in Mechanobiology, 2019, 18, 1461-1474.	1.4	9
25	Hemostatic Thrombus Formation in Flowing Blood. , 2019, , 371-391.		5
26	Coagulopathy implications using a multiscale model of traumatic bleeding matching macro- and microcirculation. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H73-H86.	1.5	9
27	Reduced Order Models for Transstenotic Pressure Drop in the Coronary Arteries. Journal of Biomechanical Engineering, 2019, 141, .	0.6	30
28	Impact of Tissue Factor Localization on Blood Clot Structure and Resistance under Venous Shear. Biophysical Journal, 2018, 114, 978-991.	0.2	27
29	Multiscale systems biology of trauma-induced coagulopathy. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2018, 10, e1418.	6.6	9
30	A parallel fluid-solid coupling model using LAMMPS and Palabos based on the immersed boundary method. Journal of Computational Science, 2018, 25, 89-100.	1.5	30
31	Hemodynamic force triggers rapid NETosis within sterile thrombotic occlusions. Journal of Thrombosis and Haemostasis, 2018, 16, 316-329.	1.9	57
32	Using microfluidic devices to study thrombosis in pathological blood flows. Biomicrofluidics, 2018, 12, 042201.	1.2	32
33	Dual antiplatelet and anticoagulant (APAC) heparin proteoglycan mimetic with shear-dependent effects on platelet-collagen binding and thrombin generation. Thrombosis Research, 2018, 169, 143-151.	0.8	13
34	Deposition of sticky spheres in channel flow: Modeling of surface coverage evolution requires accurate sphere-sphere collision hydrodynamics. Journal of Colloid and Interface Science, 2018, 530, 383-393.	5.0	13
35	Establishing the Transient Mass Balance of Thrombosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 1528-1536.	1.1	23
36	Contact Pathway Function During Human Whole Blood Clotting on Procoagulant Surfaces. Frontiers in Medicine, 2018, 5, 209.	1.2	7

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37	Computational Modeling and Microfluidics Reveal Characteristic Patterns of Regulation of Clot Structure and Mechanics By Tissue Factor Localization. <i>Blood</i> , 2018, 132, 1164-1164.	0.6	0
38	Multiscale simulation of thrombus growth and vessel occlusion triggered by collagen/tissue factor using a data-driven model of combinatorial platelet signalling. <i>Mathematical Medicine and Biology</i> , 2017, 34, dqw015.	0.8	18
39	Microfluidic whole blood testing of platelet response to pharmacological agents. <i>Platelets</i> , 2017, 28, 457-462.	1.1	20
40	New Microfluidic Paths to Test for Bleeding or Clotting. <i>Cellular and Molecular Bioengineering</i> , 2017, 10, 1-2.	1.0	6
41	A Systems Approach to the Platelet Signaling Network and the Hemostatic Response to Injury. , 2017, , 367-378.		2
42	Recombinant factor γ VII a addition to haemophilic blood perfused over collagen/tissue factor can sufficiently bypass the factor γ IX a/ γ VIII a defect to rescue fibrin generation. <i>Haemophilia</i> , 2017, 23, 759-768.	1.0	7
43	Potent Thrombolytic Effect of γ -N-Acetylcysteine on Arterial Thrombi. <i>Circulation</i> , 2017, 136, 646-660.	1.6	112
44	Soluble fibrin causes an acquired platelet glycoprotein VI signaling defect: implications for coagulopathy. <i>Journal of Thrombosis and Haemostasis</i> , 2017, 15, 2396-2407.	1.9	35
45	When Flow Goes Slow, von Willebrand Factor Can Bind Red Blood Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 1595-1595.	1.1	1
46	Discovery and assessment of water soluble coumarins as inhibitors of the coagulation contact pathway. <i>Thrombosis Research</i> , 2017, 157, 126-133.	0.8	12
47	P2Y12 Receptor Function and Response to Cangrelor in Neonates With Cyanotic Congenital Heart Disease. <i>JACC Basic To Translational Science</i> , 2017, 2, 465-476.	1.9	9
48	Thrombi Produced in Stagnation Point Flows Have a Core-Shell Structure. <i>Cellular and Molecular Bioengineering</i> , 2017, 10, 515-521.	1.0	15
49	Platelets and hemostasis: a new perspective on an old subject. <i>Blood Advances</i> , 2016, 1, 5-9.	2.5	31
50	Platelet-targeting thiol reduction sensor detects thiol isomerase activity on activated platelets in mouse and human blood under flow. <i>Journal of Thrombosis and Haemostasis</i> , 2016, 14, 1070-1081.	1.9	10
51	Transport physics and biorheology in the setting of hemostasis and thrombosis. <i>Journal of Thrombosis and Haemostasis</i> , 2016, 14, 906-917.	1.9	71
52	Flow and delta-P dictate where thrombin, fibrin, and von Willebrand Factor will be found. <i>Thrombosis Research</i> , 2016, 141, S22-S24.	0.8	2
53	Systems Analysis of Thrombus Formation. <i>Circulation Research</i> , 2016, 118, 1348-1362.	2.0	81
54	Platelets. , 2016, , 125-134.		0

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55	A systems approach to hemostasis: 4. How hemostatic thrombi limit the loss of plasma-borne molecules from the microvasculature. <i>Blood</i> , 2016, 127, 1598-1605.	0.6	46
56	Dynamics of Thrombin Generation and Flux from Clots during Whole Human Blood Flow over Collagen/Tissue Factor Surfaces. <i>Journal of Biological Chemistry</i> , 2016, 291, 23027-23035.	1.6	30
57	Minimum wound size for clotting: flowing blood coagulates on a single collagen fiber presenting tissue factor and von Willebrand factor. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 813-820.	0.6	14
58	In microfluidico: Recreating in vivo hemodynamics using miniaturized devices. <i>Biorheology</i> , 2016, 52, 303-318.	1.2	32
59	Ex vivo recapitulation of trauma-induced coagulopathy and preliminary assessment of trauma patient platelet function under flow using microfluidic technology. <i>Journal of Trauma and Acute Care Surgery</i> , 2016, 80, 440-449.	1.1	49
60	Theme 1: Pathogenesis of venous thromboembolism (and post-thrombotic syndrome). <i>Thrombosis Research</i> , 2015, 136, S3-S7.	0.8	2
61	FXIa and platelet polyphosphate as therapeutic targets during human blood clotting on collagen/tissue factor surfaces under flow. <i>Blood</i> , 2015, 126, 1494-1502.	0.6	70
62	Pathological von Willebrand factor fibers resist tissue plasminogen activator and ADAMTS13 while promoting the contact pathway and shear-induced platelet activation. <i>Journal of Thrombosis and Haemostasis</i> , 2015, 13, 1699-1708.	1.9	36
63	Synthesis and structure-activity relationships of novel cationic lipids with anti-inflammatory and antimicrobial activities. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 2837-2843.	1.0	4
64	Shock releases bile acid inducing platelet inhibition and fibrinolysis. <i>Journal of Surgical Research</i> , 2015, 195, 390-395.	0.8	36
65	Fibrin, Fibrinogen, and Transclot Pressure Gradient Control Hemostatic Clot Growth During Human Blood Flow Over a Collagen/Tissue Factor Wound. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 645-654.	1.1	28
66	A Human Platelet Calcium Calculator Trained by Pairwise Agonist Scanning. <i>PLoS Computational Biology</i> , 2015, 11, e1004118.	1.5	20
67	Bactericidal Activities of Cathelicidin LL-37 and Select Cationic Lipids against the Hypervirulent <i>Pseudomonas aeruginosa</i> Strain LESB58. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 3808-3815.	1.4	42
68	Microfluidic assessment of functional culture-derived platelets in human thrombi under flow. <i>Experimental Hematology</i> , 2015, 43, 891-900.e4.	0.2	5
69	Recombinant factor VIIa enhances platelet deposition from flowing haemophilic blood but requires the contact pathway to promote fibrin deposition. <i>Haemophilia</i> , 2015, 21, 266-274.	1.0	15
70	<i>In Vivo</i> Evaluation of Adeno-Associated Virus Gene Transfer in Airways of Mice with Acute or Chronic Respiratory Infection. <i>Human Gene Therapy</i> , 2014, 25, 966-976.	1.4	10
71	Differential impairment of aspirin-dependent platelet cyclooxygenase acetylation by nonsteroidal anti-inflammatory drugs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16830-16835.	3.3	68
72	Microfluidic assay of hemophilic blood clotting: distinct deficits in platelet and fibrin deposition at low factor levels. <i>Journal of Thrombosis and Haemostasis</i> , 2014, 12, 147-158.	1.9	42

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73	Detection of platelet sensitivity to inhibitors of COX-1, P2Y1, and P2Y12 using a whole blood microfluidic flow assay. <i>Thrombosis Research</i> , 2014, 133, 203-210.	0.8	25
74	Systems Modeling of Ca ²⁺ Homeostasis and Mobilization in Platelets Mediated by IP3 and Store-Operated Ca ²⁺ Entry. <i>Biophysical Journal</i> , 2014, 106, 2049-2060.	0.2	25
75	MicroRNA Screen of Human Embryonic Stem Cell Differentiation Reveals miR-105 as an Enhancer of Megakaryopoiesis from Adult CD34 ⁺ Cells. <i>Stem Cells</i> , 2014, 32, 1337-1346.	1.4	22
76	Contact activation of blood coagulation on a defined kaolin/collagen surface in a microfluidic assay. <i>Thrombosis Research</i> , 2014, 134, 1335-1343.	0.8	52
77	Rapid on-chip recalcification and drug dosing of citrated whole blood using microfluidic buffer sheath flow. <i>Biorheology</i> , 2014, 51, 227-237.	1.2	8
78	Platelet Dynamics in Three-Dimensional Simulation of Whole Blood. <i>Biophysical Journal</i> , 2014, 106, 2529-2540.	0.2	90
79	A systems approach to hemostasis: 3. Thrombus consolidation regulates intrathrombus solute transport and local thrombin activity. <i>Blood</i> , 2014, 124, 1824-1831.	0.6	140
80	A systems approach to hemostasis: 1. The interdependence of thrombus architecture and agonist movements in the gaps between platelets. <i>Blood</i> , 2014, 124, 1808-1815.	0.6	151
81	A systems approach to hemostasis: 2. Computational analysis of molecular transport in the thrombus microenvironment. <i>Blood</i> , 2014, 124, 1816-1823.	0.6	102
82	Thrombus Structure Regulates Plasma Loss after Vascular Injury in Vivo. <i>Blood</i> , 2014, 124, 4162-4162.	0.6	0
83	Hydrodynamic Interaction Between a Platelet and an Erythrocyte: Effect of Erythrocyte Deformability, Dynamics, and Wall Proximity. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 51002.	0.6	9
84	Microfluidic Assay of Platelet Deposition on Collagen by Perfusion of Whole Blood from Healthy Individuals Taking Aspirin. <i>Clinical Chemistry</i> , 2013, 59, 1195-1204.	1.5	33
85	Antibacterial activity of the human host defence peptide LL-37 and selected synthetic cationic lipids against bacteria associated with oral and upper respiratory tract infections. <i>Journal of Antimicrobial Chemotherapy</i> , 2013, 68, 610-618.	1.3	66
86	Hierarchical organization in the hemostatic response and its relationship to the platelet-signaling network. <i>Blood</i> , 2013, 121, 1875-1885.	0.6	345
87	Simulation of Intrathrombus Fluid and Solute Transport Using In Vivo Clot Structures with Single Platelet Resolution. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1297-1307.	1.3	51
88	Side view thrombosis microfluidic device with controllable wall shear rate and transthrombus pressure gradient. <i>Lab on A Chip</i> , 2013, 13, 1883.	3.1	61
89	Microfluidics and Coagulation Biology. <i>Annual Review of Biomedical Engineering</i> , 2013, 15, 283-303.	5.7	110
90	Direct Observation of von Willebrand Factor Elongation and Fiber Formation on Collagen During Acute Whole Blood Exposure to Pathological Flow. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 105-113.	1.1	93

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91	Pairwise agonist scanning-flow cytometry (PAS-FC) measures inside-out signaling and patient-specific response to combinatorial platelet agonists. <i>BioTechniques</i> , 2013, 54, 271-277.	0.8	6
92	Systems biology of platelet-vessel wall interactions. <i>Frontiers in Physiology</i> , 2013, 4, 229.	1.3	20
93	Multiscale Systems Biology and Physics of Thrombosis Under Flow. <i>Annals of Biomedical Engineering</i> , 2012, 40, 2355-2364.	1.3	59
94	Multiscale Systems Biology: A Special Issue Devoted to Understanding Biology and Medicine Across Multiple Scales. <i>Annals of Biomedical Engineering</i> , 2012, 40, 2293-2294.	1.3	2
95	Multiscale prediction of patient-specific platelet function under flow. <i>Blood</i> , 2012, 120, 190-198.	0.6	105
96	Blood Clots Are Rapidly Assembled Hemodynamic Sensors. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 2938-2945.	1.1	90
97	Small Molecule Inhibition of RISC Loading. <i>ACS Chemical Biology</i> , 2012, 7, 403-410.	1.6	78
98	Thrombus Growth and Embolism on Tissue Factor-Bearing Collagen Surfaces Under Flow. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 1466-1476.	1.1	116
99	High-Throughput Screening Assay for Embryoid Body Differentiation of Human Embryonic Stem Cells. <i>Current Protocols in Stem Cell Biology</i> , 2012, 20, Unit 1D.6.	3.0	4
100	Blood Clots Are Rapidly Assembled Hemodynamic Sensors: Flow Arrest Triggers Intraluminal Thrombus Contraction.. <i>Blood</i> , 2012, 120, 2164-2164.	0.6	0
101	Direct Observation of Von Willebrand Factor Elongation and Fiber Formation On Collagen During Acute Whole Blood Exposure to Pathological Flow. <i>Blood</i> , 2012, 120, 1070-1070.	0.6	0
102	Relipidated Tissue Factor Linked to Collagen Surfaces Potentiates Platelet Adhesion and Fibrin Formation in a Microfluidic Model of Vessel Injury. <i>Bioconjugate Chemistry</i> , 2011, 22, 2104-2109.	1.8	37
103	Simulation of aggregating particles in complex flows by the lattice kinetic Monte Carlo method. <i>Journal of Chemical Physics</i> , 2011, 134, 034905.	1.2	24
104	Identification of Specific Inhibitors of Human RAD51 Recombinase Using High-Throughput Screening. <i>ACS Chemical Biology</i> , 2011, 6, 628-635.	1.6	182
105	Drug Discovery for Duchenne Muscular Dystrophy via Utrophin Promoter Activation Screening. <i>PLoS ONE</i> , 2011, 6, e26169.	1.1	59
106	The kinetics of α IIb β 3 activation determines the size and stability of thrombi in mice: implications for antiplatelet therapy. <i>Blood</i> , 2011, 117, 1005-1013.	0.6	71
107	A high-throughput multiplexed screening assay for optimizing serum-free differentiation protocols of human embryonic stem cells. <i>Stem Cell Research</i> , 2011, 6, 129-142.	0.3	10
108	Analysis of Morphology of Platelet Aggregates Formed on Collagen Under Laminar Blood Flow. <i>Annals of Biomedical Engineering</i> , 2011, 39, 922-929.	1.3	24

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109	High-throughput screening of a small molecule library for promoters and inhibitors of mesenchymal stem cell osteogenic differentiation. <i>Biotechnology and Bioengineering</i> , 2011, 108, 163-174.	1.7	50
110	Enhancers of Adeno-associated Virus AAV2 Transduction via High Throughput siRNA Screening. <i>Molecular Therapy</i> , 2011, 19, 1152-1160.	3.7	15
111	Novel high-throughput screen against <i>Candida albicans</i> identifies antifungal potentiators and agents effective against biofilms. <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 820-826.	1.3	54
112	Design, Synthesis and Biological Evaluation of a Library of Thiocarbazates and Their Activity as Cysteine Protease Inhibitors. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010, 13, 337-351.	0.6	4
113	Diminished contact-dependent reinforcement of Syk activation underlies impaired thrombus growth in mice lacking Semaphorin 4D. <i>Blood</i> , 2010, 116, 5707-5715.	0.6	36
114	RGS/Gi2 interactions modulate platelet accumulation and thrombus formation at sites of vascular injury. <i>Blood</i> , 2010, 116, 6092-6100.	0.6	52
115	Identification of triazinoindol-benzimidazolones as nanomolar inhibitors of the <i>Mycobacterium tuberculosis</i> enzyme TDP-6-deoxy-d-xylo-4-hexopyranosid-4-ulose 3,5-epimerase (RmlC). <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 896-908.	1.4	79
116	Cathepsin L occupies a vacuolar compartment and is a protein maturase within the endo/exocytic system of <i>Toxoplasma gondii</i> . <i>Molecular Microbiology</i> , 2010, 76, 1340-1357.	1.2	123
117	Pairwise agonist scanning predicts cellular signaling responses to combinatorial stimuli. <i>Nature Biotechnology</i> , 2010, 28, 727-732.	9.4	83
118	Identification of Novel Inhibitors of Dietary Lipid Absorption Using Zebrafish. <i>PLoS ONE</i> , 2010, 5, e12386.	1.1	73
119	Discovery of Potent Small-Molecule Inhibitors of Multidrug-Resistant <i>Plasmodium falciparum</i> Using a Novel Miniaturized High-Throughput Luciferase-Based Assay. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 3597-3604.	1.4	46
120	Novel Cationic Lipids with Enhanced Gene Delivery and Antimicrobial Activity. <i>Molecular Pharmacology</i> , 2010, 78, 402-410.	1.0	14
121	Combined Antibacterial and Anti-Inflammatory Activity of a Cationic Disubstituted Dexamethasone-Spermine Conjugate. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 2525-2533.	1.4	21
122	A Small-Molecule Oxocarbazate Inhibitor of Human Cathepsin L Blocks Severe Acute Respiratory Syndrome and Ebola Pseudotype Virus Infection into Human Embryonic Kidney 293T cells. <i>Molecular Pharmacology</i> , 2010, 78, 319-324.	1.0	108
123	Systems Biology of Coagulation Initiation: Kinetics of Thrombin Generation in Resting and Activated Human Blood. <i>PLoS Computational Biology</i> , 2010, 6, e1000950.	1.5	125
124	Tissue factor activity under flow. <i>Thrombosis Research</i> , 2010, 125, S29-S30.	0.8	5
125	Photo-induced release of active plasmid from crosslinked nanoparticles: o-nitrobenzyl/methacrylate functionalized polyethyleneimine. <i>Journal of Materials Chemistry</i> , 2010, 20, 3396.	6.7	17
126	Development of a Stable Thrombotic Core with Limited Access to Plasma Proteins During Thrombus Formation In Vivo. <i>Blood</i> , 2010, 116, 2013-2013.	0.6	1

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127	Systems Biology to Predict Platelet Function. <i>Blood</i> , 2010, 116, SCI-38-SCI-38.	0.6	0
128	Discovery of Chemical Modulators of a Conserved Translational Control Pathway by Parallel Screening in Yeast. <i>Assay and Drug Development Technologies</i> , 2009, 7, 479-494.	0.6	6
129	Disruption of SEMA4D Ameliorates Platelet Hypersensitivity in Dyslipidemia and Confers Protection Against the Development of Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1039-1045.	1.1	58
130	Cationic Lipid Formulations Alter the In Vivo Tropism of AAV2/9 Vector in Lung. <i>Molecular Therapy</i> , 2009, 17, 2078-2087.	3.7	23
131	Steady-State Kinetic Modeling Constrains Cellular Resting States and Dynamic Behavior. <i>PLoS Computational Biology</i> , 2009, 5, e1000298.	1.5	17
132	Molecular priming of Lyn by GPVI enables an immune receptor to adopt a hemostatic role. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21167-21172.	3.3	61
133	Membrane Cholesterol Is a Biomechanical Regulator of Neutrophil Adhesion. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 1290-1297.	1.1	49
134	A series of cationic sterol lipids with gene transfer and bactericidal activity. <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 3257-3265.	1.4	29
135	Toward the Development of a Potent and Selective Organoruthenium Mammalian Sterile 20 Kinase Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 1602-1611.	2.9	74
136	From Imide to Lactam Metallo-pyridocarbazoles: Distinct Scaffolds for the Design of Selective Protein Kinase Inhibitors. <i>Journal of Organic Chemistry</i> , 2009, 74, 8997-9009.	1.7	20
137	Lattice kinetic Monte Carlo simulations of convective-diffusive systems. <i>Journal of Chemical Physics</i> , 2009, 130, 094904.	1.2	27
138	Revised Model for Platelet Adhesion to Collagen. <i>Blood</i> , 2009, 114, 2999-2999.	0.6	0
139	Hemodynamic Regulation of Inflammation at the Endothelial-Neutrophil Interface. <i>Annals of Biomedical Engineering</i> , 2008, 36, 586-595.	1.3	17
140	Harry L. Goldsmith, Ph.D.. <i>Annals of Biomedical Engineering</i> , 2008, 36, 523-526.	1.3	2
141	High-Throughput Screening for Modulators of Mesenchymal Stem Cell Chondrogenesis. <i>Annals of Biomedical Engineering</i> , 2008, 36, 1909-1921.	1.3	72
142	<i>Saccharomyces cerevisiae</i> cell-based quantitative β -galactosidase assay compatible with robotic handling and high-throughput screening. <i>Yeast</i> , 2008, 25, 71-76.	0.8	16
143	Identification and synthesis of a unique thiocarbazate cathepsin L inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 210-214.	1.0	20
144	Design, synthesis, and evaluation of inhibitors of cathepsin L: Exploiting a unique thiocarbazate chemotype. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 3646-3651.	1.0	19

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145	Enzyme microarrays assembled by acoustic dispensing technology. <i>Analytical Biochemistry</i> , 2008, 381, 101-106.	1.1	10
146	DNA/PEI nano-particles for gene delivery of rat bone marrow stem cells. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 313-314, 116-120.	2.3	25
147	Proteases' prime targets revealed. <i>Nature Biotechnology</i> , 2008, 26, 652-653.	9.4	1
148	Evaluation of an Orthogonal Pooling Strategy for Rapid High-Throughput Screening of Proteases. <i>Assay and Drug Development Technologies</i> , 2008, 6, 395-405.	0.6	26
149	Molecular Docking of Cathepsin L Inhibitors in the Binding Site of Papain. <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 1464-1472.	2.5	27
150	A membrane-based microfluidic device for controlling the flux of platelet agonists into flowing blood. <i>Lab on A Chip</i> , 2008, 8, 701.	3.1	69
151	A molecular signaling model of platelet phosphoinositide and calcium regulation during homeostasis and P2Y1 activation. <i>Blood</i> , 2008, 112, 4069-4079.	0.6	75
152	Ethanol Enhances Neutrophil Membrane Tether Growth and Slows Rolling on P-Selectin but Reduces Capture from Flow and Firm Arrest on IL-1-Treated Endothelium. <i>Journal of Immunology</i> , 2008, 181, 2472-2482.	0.4	19
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