

# Oliver Grottke

## List of Publications by Citations

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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.

85  
papers

1,245  
citations

20  
h-index

32  
g-index

90  
ext. papers

1,486  
ext. citations

4  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
85	Increasing concentrations of prothrombin complex concentrate induce disseminated intravascular coagulation in a pig model of coagulopathy with blunt liver injury. <i>Blood</i> , <b>2011</b> , 118, 1943-51	2.2	97
84	Reversal of dabigatran anticoagulation ex vivo: Porcine study comparing prothrombin complex concentrates and idarucizumab. <i>Thrombosis and Haemostasis</i> , <b>2015</b> , 113, 728-40	7	84
83	Prothrombin complex concentrates and a specific antidote to dabigatran are effective ex-vivo in reversing the effects of dabigatran in an anticoagulation/liver trauma experimental model. <i>Critical Care</i> , <b>2014</b> , 18, R27	10.8	80
82	Prothrombin complex concentrates in trauma and perioperative bleeding. <i>Anesthesiology</i> , <b>2015</b> , 122, 923-31	4.3	74
81	Idarucizumab, a Specific Dabigatran Reversal Agent, Reduces Blood Loss in a Porcine Model of Trauma With Dabigatran Anticoagulation. <i>Journal of the American College of Cardiology</i> , <b>2015</b> , 66, 1518-9 <sup>15.1</sup>	15.1	49
80	Effects of different fibrinogen concentrations on blood loss and coagulation parameters in a pig model of coagulopathy with blunt liver injury. <i>Critical Care</i> , <b>2010</b> , 14, R62	10.8	49
79	Diagnosis and treatment of peripartum bleeding. <i>Journal of Perinatal Medicine</i> , <b>2008</b> , 36, 467-78	2.7	44
78	Prothrombin Complex Concentrate Is Effective in Treating the Anticoagulant Effects of Dabigatran in a Porcine Polytrauma Model. <i>Anesthesiology</i> , <b>2015</b> , 123, 1350-61	4.3	42
77	Therapy with activated prothrombin complex concentrate is effective in reducing dabigatran-associated blood loss in a porcine polytrauma model. <i>Thrombosis and Haemostasis</i> , <b>2016</b> , 115, 271-84	7	41
76	The impact of direct oral anticoagulants in traumatic brain injury patients greater than 60-years-old. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , <b>2018</b> , 26, 20	3.6	40
75	Cortisol and alpha-amylase as stress response indicators during pre-hospital emergency medicine training with repetitive high-fidelity simulation and scenarios with standardized patients. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , <b>2015</b> , 23, 31	3.6	36
74	Efficacy of prothrombin complex concentrates for the emergency reversal of dabigatran-induced anticoagulation. <i>Critical Care</i> , <b>2016</b> , 20, 115	10.8	35
73	Thrombin generation capacity of prothrombin complex concentrate in an in vitro dilutional model. <i>PLoS ONE</i> , <b>2013</b> , 8, e64100	3.7	32
72	Prothrombin complex concentrate reduces blood loss and enhances thrombin generation in a pig model with blunt liver injury under severe hypothermia. <i>Thrombosis and Haemostasis</i> , <b>2011</b> , 106, 724-33 <sup>7</sup>	7	29
71	Idarucizumab, a Specific Reversal Agent for Dabigatran: Mode of Action, Pharmacokinetics and Pharmacodynamics, and Safety and Efficacy in Phase 1 Subjects. <i>American Journal of Medicine</i> , <b>2016</b> , 129, S64-S72	2.4	28
70	Impact of Direct Oral Anticoagulants in Patients With Hip Fractures. <i>Journal of Orthopaedic Trauma</i> , <b>2019</b> , 33, e8-e13	3.1	27
69	Measurement of dabigatran in standardly used clinical assays, whole blood viscoelastic coagulation, and thrombin generation assays. <i>Clinics in Laboratory Medicine</i> , <b>2014</b> , 34, 479-501	2.1	26

68	Idarucizumab, a specific reversal agent for dabigatran: mode of action, pharmacokinetics and pharmacodynamics, and safety and efficacy in phase 1 subjects. <i>American Journal of Emergency Medicine</i> , <b>2016</b> , 34, 26-32	2.9	26
67	Perioperatively acquired disorders of coagulation. <i>Current Opinion in Anaesthesiology</i> , <b>2015</b> , 28, 113-22	2.9	20
66	Direct Oral Anticoagulants in Emergency Trauma Admissions. <i>Deutsches Arzteblatt International</i> , <b>2016</b> , 113, 575-82	2.5	20
65	Sub-anesthetic Xenon Increases Erythropoietin Levels in Humans: A Randomized Controlled Trial. <i>Sports Medicine</i> , <b>2016</b> , 46, 1753-1766	10.6	20
64	Role of extracorporeal membrane oxygenation in critically ill COVID-19 patients and predictors of mortality. <i>Artificial Organs</i> , <b>2021</b> , 45, E158-E170	2.6	18
63	Use of blood and blood products in trauma. <i>Baillieres Best Practice and Research in Clinical Anaesthesiology</i> , <b>2007</b> , 21, 257-70	4	16
62	The relevance of 25-hydroxyvitamin D and 1,25-dihydroxyvitamin D concentration for postoperative infections and postoperative organ dysfunctions in cardiac surgery patients: The eVIDenCe study. <i>Clinical Nutrition</i> , <b>2019</b> , 38, 2756-2762	5.9	14
61	Reversing Dabigatran Anticoagulation with Prothrombin Complex Concentrate versus Idarucizumab as Part of Multimodal Hemostatic Intervention in an Animal Model of Polytrauma. <i>Anesthesiology</i> , <b>2017</b> , 127, 852-861	4.3	13
60	Effect of TachoSil in a coagulopathic pig model with blunt liver injuries. <i>Journal of Surgical Research</i> , <b>2011</b> , 171, 234-9	2.5	13
59	Activated recombinant factor VII (rFVIIa). <i>Baillieres Best Practice and Research in Clinical Anaesthesiology</i> , <b>2010</b> , 24, 95-106	4	13
58	Microfluidic cell sorting: Towards improved biocompatibility of extracorporeal lung assist devices. <i>Scientific Reports</i> , <b>2018</b> , 8, 8031	4.9	13
57	Fibrinogen concentrate does not suppress endogenous fibrinogen synthesis in a 24-hour porcine trauma model. <i>Anesthesiology</i> , <b>2014</b> , 121, 753-64	4.3	12
56	Prothrombin Complex Concentrate-induced Disseminated Intravascular Coagulation Can Be Prevented by Coadministering Antithrombin in a Porcine Trauma Model. <i>Anesthesiology</i> , <b>2019</b> , 131, 543-554	4.3	12
55	Toward a Long-Term Artificial Lung. <i>ASAIO Journal</i> , <b>2020</b> , 66, 847-854	3.6	11
54	Fibrinogen Supplementation and Its Indications. <i>Seminars in Thrombosis and Hemostasis</i> , <b>2020</b> , 46, 38-49	5.3	11
53	Effects of Fibrinogen Concentrate on Thrombin Generation, Thromboelastometry Parameters, and Laboratory Coagulation Testing in a 24-Hour Porcine Trauma Model. <i>Clinical and Applied Thrombosis/Hemostasis</i> , <b>2016</b> , 22, 749-759	3.3	10
52	Tissue oxygen saturation as an early indicator of delayed lactate clearance after cardiac surgery: a prospective observational study. <i>BMC Anesthesiology</i> , <b>2015</b> , 15, 158	2.4	10
51	Hemostatic Therapy Using Tranexamic Acid and Coagulation Factor Concentrates in a Model of Traumatic Liver Injury. <i>Anesthesia and Analgesia</i> , <b>2016</b> , 123, 38-48	3.9	10

50	Automatic Control of Veno-Venous Extracorporeal Lung Assist. <i>Artificial Organs</i> , <b>2016</b> , 40, 992-998	2.6	10
49	In vitro comparison of the hemocompatibility of two centrifugal left ventricular assist devices. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2019</b> , 157, 591-599.e4	1.5	10
48	The Renal Elimination Pathways of the Dabigatran Reversal Agent Idarucizumab and its Impact on Dabigatran Elimination. <i>Clinical and Applied Thrombosis/Hemostasis</i> , <b>2018</b> , 24, 724-733	3.3	9
47	Coagulation management. <i>Current Opinion in Critical Care</i> , <b>2012</b> , 18, 641-6	3.5	9
46	Thromboembolic and Bleeding Events in COVID-19 Patients receiving Extracorporeal Membrane Oxygenation. <i>Thoracic and Cardiovascular Surgeon</i> , <b>2021</b> , 69, 526-536	1.6	9
45	The thrombotic risk of spaceflight: has a serious problem been overlooked for more than half of a century?. <i>European Heart Journal</i> , <b>2021</b> , 42, 97-100	9.5	8
44	Transient or extended reversal of apixaban anticoagulation by andexanet $\alpha$ is equally effective in a porcine polytrauma model. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 123, 186-195	5.4	8
43	Nonsurgical techniques to control massive bleeding. <i>Anesthesiology Clinics</i> , <b>2013</b> , 31, 41-53	2.3	8
42	Twelve Hours In Vitro Biocompatibility Testing of Membrane Oxygenators. <i>ASAIO Journal</i> , <b>2015</b> , 61, 548-555	3.5	8
41	Four-factor Prothrombin Complex Concentrate for the Management of Patients Receiving Direct Oral Activated Factor X Inhibitors. <i>Anesthesiology</i> , <b>2019</b> , 131, 1153-1165	4.3	8
40	Antifouling Microparticles To Scavenge Lipopolysaccharide from Human Blood Plasma. <i>Biomacromolecules</i> , <b>2019</b> , 20, 959-968	6.9	8
39	Sufficient Thrombin Generation Despite 95% Hemodilution: An In Vitro Experimental Study. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	6
38	Idarucizumab in major trauma patients: a single centre real life experience. <i>European Journal of Trauma and Emergency Surgery</i> , <b>2021</b> , 47, 589-595	2.3	6
37	Fibrin patch in a pig model with blunt liver injury under severe hypothermia. <i>Journal of Surgical Research</i> , <b>2014</b> , 187, 616-24	2.5	5
36	Influence of the bimanual frame of reference with haptics for unimanual interaction tasks in virtual environments <b>2011</b> ,		5
35	Survival of HeartMate II Patients Despite Cessation of Anticoagulation - Outcomes and Hemostatic Analysis. <i>Circulation Journal</i> , <b>2018</b> , 82, 1309-1318	2.9	5
34	Dose requirements for idarucizumab reversal of dabigatran in a lethal porcine trauma model with continuous bleeding. <i>Thrombosis and Haemostasis</i> , <b>2017</b> , 117, 1370-1378	7	4
33	The Reversal of Direct Oral Anticoagulants in Animal Models. <i>Shock</i> , <b>2017</b> , 48, 144-158	3.4	3

32	Recombinant Factor VIIa Reduces Bleeding after Blunt Liver Injury in a Pig Model of Dilutional Coagulopathy under Severe Hypothermia. <i>PLoS ONE</i> , <b>2015</b> , 10, e0113979	3.7	3
31	Outcomes of Extracorporeal Membrane Oxygenation for Acute Respiratory Distress Syndrome in COVID-19 Patients: A Propensity-Matched Analysis. <i>Journal of Clinical Medicine</i> , <b>2021</b> , 10,	5.1	3
30	Coagulation factor concentrates and point-of-care coagulation monitoring: both might be essential for optimal treatment of trauma-induced coagulopathy. <i>Lancet Haematology</i> , <b>2017</b> , 4, e246-e247	14.6	2
29	Plasma-derived Factor X therapy for treatment of intracranial bleeding in a patient with Factor X deficiency: a case report. <i>Transfusion</i> , <b>2019</b> , 59, 2228-2233	2.9	2
28	The use of coagulation factor concentrates for perioperative bleeding management - a global perspective. <i>Transfusion</i> , <b>2020</b> , 60, 663-666	2.9	2
27	Septic porcine blood does not further activate coagulation during in vitro membrane oxygenation. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2017</b> , 51, 449-456	3	2
26	Comparison of Second and First Generation of Andexanet Alfa in a Porcine Polytrauma Model with Apixaban Anticoagulation. <i>Blood</i> , <b>2018</b> , 132, 3778-3778	2.2	2
25	Ex Vivo Prothrombin Complex Concentrates and a Specific Antidote Are Effective In Reversing Dabigatran-Induced Coagulopathy In Pigs. <i>Blood</i> , <b>2013</b> , 122, 2387-2387	2.2	2
24	Improving Hemocompatibility: How Can Smart Surfaces Direct Blood To Fight against Thrombi. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 11696-11707	9.5	2
23	Evaluation of combined idarucizumab and prothrombin complex concentrate treatment for bleeding related to dabigatran in a lethal porcine model of double trauma. <i>Transfusion</i> , <b>2019</b> , 59, 1376-1387	2.9	2
22	Reply to Faraoni D, Fenger-Eriksen C, Gillard S et al. Evaluation of dynamic parameters of thrombus formation measured on whole blood using rotational thromboelastometry in children undergoing cardiac surgery: a descriptive study. <i>Paediatric Anaesthesia</i> , <b>2015</b> , 25, 646-7	1.8	1
21	Resuscitation With Different Volume Expanders Does Not Influence Coagulation After Antidoting Dabigatran With Its Specific Fab In a Pig Model Of Hemorrhagic Shock. <i>Blood</i> , <b>2013</b> , 122, 3649-3649	2.2	1
20	Reversal of Trauma-Induced Bleeding and Anticoagulation with a Dabigatran-Specific Antidote (idarucizumab) As Assessed By Shed and Washed Blood Tests in a Pig Model of Supratherapeutic Anticoagulation and Trauma. <i>Blood</i> , <b>2014</b> , 124, 4268-4268	2.2	1
19	High Interleukin-6 Plasma Concentration upon Admission Is Predictive of Massive Transfusion in Severely Injured Patients. <i>Journal of Clinical Medicine</i> , <b>2021</b> , 10,	5.1	1
18	Impact of Idarucizumab and Andexanet Alfa on DOAC Plasma Concentration and ClotPro Clotting Time: An Ex Vivo Spiking Study in A Cohort of Trauma Patients. <i>Journal of Clinical Medicine</i> , <b>2021</b> , 10,	5.1	1
17	Reversing Rivaroxaban Anticoagulation as Part of a Multimodal Hemostatic Intervention in a Polytrauma Animal Model. <i>Anesthesiology</i> , <b>2021</b> , 135, 673-685	4.3	1
16	Reversal of Apixaban Anticoagulation with Reduced Doses of Andexanet Alfa in a Porcine Polytrauma Model. <i>Blood</i> , <b>2018</b> , 132, 2456-2456	2.2	0
15	Coagulation management for a caesarean delivery in a mother with severe homozygous Factor V deficiency. <i>Journal of Clinical Anesthesia</i> , <b>2021</b> , 74, 110402	1.9	0

14	Extracorporeal membrane oxygenation in patients with COVID-19: 1-year experience. <i>Journal of Thoracic Disease</i> , <b>2021</b> , 13, 5911-5924	2.6	o
13	Extended Coagulation Profiling in Isolated Traumatic Brain Injury: A CENTER-TBI Analysis.. <i>Neurocritical Care</i> , <b>2021</b> , 1	3.3	o
12	Intracranial bleeding under vitamin K antagonists or direct oral anticoagulants: results of the RADOA registry.. <i>Neurological Research and Practice</i> , <b>2022</b> , 4, 16	3.2	o
11	Volume replacement strategies do not impair the binding of dabigatran to idarucizumab: Porcine model of hemodilution. <i>PLoS ONE</i> , <b>2019</b> , 14, e0209350	3.7	
10	Prothrombin Complex Concentrate in Combination with Fibrinogen Plus Tranexamic Acid Is More Effective Than Mono-Therapy with Prothrombin Complex Concentrate in a Dabigatran Anticoagulation Experimental Polytrauma Model. <i>Blood</i> , <b>2014</b> , 124, 346-346	2.2	
9	Mechanistic Differences of Prothrombin Complex Concentrate and Idarucizumab in a Trauma Model Under Dabigatran Anticoagulation. <i>Blood</i> , <b>2015</b> , 126, 1128-1128	2.2	
8	Prothrombin Complex Concentrate or Idarucizumab in a Multimodal Hemostatic Approach with Tranexamic Acid and Fibrinogen for the Acute Reversal of Dabigatran. <i>Blood</i> , <b>2015</b> , 126, 2275-2275	2.2	
7	Rekombinanter Faktor VIIa <b>2016</b> , 197-210		
6	Markers of Thromboembolic Risk Were Insignificantly Affected By Either Intraosseous or Intravenous Idarucizumab in a Dabigatran-Anticoagulated Porcine Polytrauma Model. <i>Blood</i> , <b>2016</b> , 128, 2623-2623	2.2	
5	Thrombin Generation Capacity of Prothrombin Complex Concentrate in an in Vitro Dilutional Model. <i>Blood</i> , <b>2012</b> , 120, 4380-4380	2.2	
4	Perioperative Management <b>2014</b> , 13-28		
3	Response to Wirtz et al: The impact of blood product ratio and procoagulant therapy on the development of thromboembolic events in severely injured hemorrhaging trauma patients. <i>Transfusion</i> , <b>2021</b> , 61, 991-992	2.9	
2	Re: Three versus four-factor prothrombin complex concentrates for "factor-based" resuscitation in a porcine hemorrhagic shock model. <i>Journal of Trauma and Acute Care Surgery</i> , <b>2018</b> , 84, 217	3.3	
1	Prothrombin complex concentrate (PCC) for the treatment of coagulopathy associated with massive bleeding. <i>Wiener Klinische Wochenschrift</i> , <b>2010</b> , 122 Suppl 5, S23-4	2.3	