Peter Biberthaler

List of Publications by Year in descending order

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122 papers 3,699 citations

32 h-index 56 g-index

127 all docs

127 docs citations

times ranked

127

3765 citing authors

#	Article	IF	CITATIONS
1	Serum GFAP and UCH-L1 for prediction of absence of intracranial injuries on head CT (ALERT-TBI): a multicentre observational study. Lancet Neurology, The, 2018, 17, 782-789.	10.2	330
2	Whole-Body CT in Haemodynamically Unstable Severely Injured Patients – A Retrospective, Multicentre Study. PLoS ONE, 2013, 8, e68880.	2.5	198
3	SERUM S-100B CONCENTRATION PROVIDES ADDITIONAL INFORMATION FOT THE INDICATION OF COMPUTED TOMOGRAPHY IN PATIENTS AFTER MINOR HEAD INJURY. Shock, 2006, 25, 446-453.	2.1	189
4	Serum S-100B and interleukin-8 as predictive markers for comparative neurologic outcome analysis of patients after cardiac arrest and severe traumatic brain injury*. Critical Care Medicine, 2002, 30, 2669-2674.	0.9	155
5	Comparison of intraosseous versus central venous vascular access in adults under resuscitation in the emergency department with inaccessible peripheral veins. Resuscitation, 2012, 83, 40-45.	3.0	133
6	Extracranial Sources of S100B Do Not Affect Serum Levels. PLoS ONE, 2010, 5, e12691.	2.5	95
7	Predictors of poor outcomes after significant chest trauma in multiply injured patients: a retrospective analysis from the German Trauma Registry (Trauma Register DGU®). Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2014, 22, 52.	2.6	91
8	MICROCIRCULATION ASSOCIATED WITH DEGENERATIVE ROTATOR CUFF LESIONS. Journal of Bone and Joint Surgery - Series A, 2003, 85, 475-480.	3.0	87
9	Spinal cord injury—incidence, prognosis, and outcome: an analysis ofÂtheÂTraumaRegister DGU. Spine Journal, 2015, 15, 1994-2001.	1.3	85
10	Platelet adhesion mediated by fibrinogen???intercelllular adhesion molecule-1 binding induces tissue injury in the postischemic liver in vivo1. Transplantation, 2002, 74, 681-688.	1.0	84
11	Evaluation of Sâ€100b as a Specific Marker for Neuronal Damage Due to Minor Head Trauma. World Journal of Surgery, 2001, 25, 93-97.	1.6	80
12	Effect of the localisation of the CT scanner during trauma resuscitation on survivalâ€"A retrospective, multicentre study. Injury, 2014, 45, S76-S82.	1.7	78
13	Immediate S-100B and Neuron-Specific Enolase Plasma Measurements for Rapid Evaluation of Primary Brain Damage in Alcohol-Intoxicated, Minor Head-Injured Patients. Shock, 2002, 18, 395-400.	2.1	69
14	Subject-Specific Increases in Serum S-100B Distinguish Sports-Related Concussion from Sports-Related Exertion. PLoS ONE, 2014, 9, e84977.	2.5	69
15	Intrathecal and Systemic Concentration of NT-proBNP in Patients with Severe Traumatic Brain Injury. Journal of Neurotrauma, 2006, 23, 943-949.	3.4	62
16	Comparison of two intraosseous access devices in adult patients under resuscitation in the emergency department: A prospective, randomized study. Resuscitation, 2010, 81, 994-999.	3.0	62
17	ELEVATED SERUM LEVELS OF S-100B REFLECT THE EXTENT OF BRAIN INJURY IN ALCOHOL INTOXICATED PATIENTS AFTER MILD HEAD TRAUMA. Shock, 2001, 16, 97-101.	2.1	58
18	P-Selectin Mediates Platelet-Endothelial Cell Interactions and Reperfusion Injury in the Mouse Liver In Vivo. Shock, 2002, 18, 529-535.	2.1	54

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19	Platelet–endothelial cell interactions during hepatic ischemia–reperfusion in vivo: a systematic analysis. Microvascular Research, 2003, 65, 71-77.	2.5	54
20	ORTHOGONAL POLARIZATION SPECTRAL IMAGING AS A TOOL FOR THE ASSESSMENT OF HEPATIC MICROCIRCULATION. Transplantation, 2001, 71, 1249-1256.	1.0	53
21	In vivo monitoring of microvessels in skin flaps: Introduction of a novel technique. Microsurgery, 2001, 21, 317-324.	1.3	52
22	THE INFLUENCE OF ORGAN TEMPERATURE ON HEPATIC ISCHEMIA-REPERFUSION INJURY. Transplantation, 2001, 72, 1486-1490.	1.0	50
23	Early cellular brain damage and systemic inflammatory response after cardiopulmonary resuscitation or isolated severe head trauma: a comparative pilot study on common pathomechanisms. Resuscitation, 2001, 49, 193-199.	3.0	48
24	Double intramedullary cortical button versus suture anchors for distal biceps tendon repair: a biomechanical comparison. Knee Surgery, Sports Traumatology, Arthroscopy, 2015, 23, 926-933.	4.2	45
25	Mono- versus polyaxial locking plates in distal femur fractures: a prospective randomized multicentre clinical trial. International Orthopaedics, 2014, 38, 857-863.	1.9	43
26	Monoaxial Versus Polyaxial Screw Insertion in Angular Stable Plate Fixation of Proximal Humeral Fractures: Radiographic Analysis of a Prospective Randomized Study. Journal of Trauma, 2010, 69, 1545-1551.	2.3	42
27	Sâ€100b, sEâ€selectin, and sPâ€selectin for Evaluation of Hypoxic Brain Damage in Patients after Cardiopulmonary Resuscitation: Pilot Study. World Journal of Surgery, 2001, 25, 539-544.	1.6	41
28	Measurement of S-100B for risk classification of victims sustaining minor head injury: first pilot study in Brazil. Clinics, 2006, 61, 41-46.	1.5	41
29	Pronator quadratus repair after volar plating of distal radius fractures or not? Results of a prospective randomized trial. European Journal of Medical Research, 2015, 20, 93.	2.2	40
30	GENOME-WIDE MONOCYTIC mRNA EXPRESSION IN POLYTRAUMA PATIENTS FOR IDENTIFICATION OF CLINICAL OUTCOME. Shock, 2005, 24, $11-19$.	2.1	38
31	Blunt Cardiac Injury in the Severely Injured – A Retrospective Multicentre Study. PLoS ONE, 2015, 10, e0131362.	2.5	36
32	The Elbow Self-Assessment Score (ESAS): development and validation of a new patient-reported outcome measurement tool for elbow disorders. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 2230-2236.	4.2	35
33	Susceptibility of automated external defibrillators to train overhead lines and metro third rails. Resuscitation, 2004, 62, 189-198.	3.0	33
34	Changes in the temporal distribution of in-hospital mortality in severely injured patientsâ€"An analysis of the TraumaRegister DGU. PLoS ONE, 2019, 14, e0212095.	2.5	32
35	Intramedullary Cortical Button Repair for Distal BicepsÂTendon Rupture: A Single-Center Experience. Journal of Hand Surgery, 2019, 44, 418.e1-418.e7.	1.6	32
36	Poly(ADP-ribose) polymerase triggers the microvascular mechanisms of hepatic ischemia-reperfusion injury. American Journal of Physiology - Renal Physiology, 2002, 283, G553-G560.	3.4	30

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37	Impact of intraischemic temperature on oxidative stress during hepatic reperfusion. Free Radical Biology and Medicine, 2003, 35, 901-909.	2.9	30
38	Increasing pullout strength of suture anchors in osteoporotic bone using augmentation—A cadaver study. Clinical Biomechanics, 2015, 30, 243-247.	1.2	30
39	Whole-body computed tomography in severely injured patients. Current Opinion in Critical Care, 2018, 24, 55-61.	3.2	30
40	Clinical and radiological outcome following treatment of displaced lateral clavicle fractures using a locking compression plate with lateral extension: a prospective study. BMC Musculoskeletal Disorders, 2014, 15, 380.	1.9	28
41	Management of acetabular fractures in the geriatric patient. Sicot-j, 2017, 3, 37.	1.8	27
42	Treatment of fracture-related infection of the lower extremity with antibiotic-eluting ceramic bone substitutes: case series of 35 patients and literature review. Infection, 2020, 48, 333-344.	4.7	26
43	Analysis of N-terminal pro-B-type natriuretic peptide and cardiac index in multiple injured patients: a prospective cohort study. Critical Care, 2008, 12, R118.	5.8	25
44	5-Aminoisoquinolinone, a novel inhibitor of poly(adenosine disphosphate-ribose) polymerase, reduces microvascular liver injury but not mortality rate after hepatic ischemia-reperfusion*. Critical Care Medicine, 2004, 32, 472-477.	0.9	24
45	Significant benefit for older patients after arthroscopic subacromial decompression: a long-term follow-up study. International Orthopaedics, 2013, 37, 457-462.	1.9	24
46	Using an anatomically preshaped low-profile locking plate system leads to reliable results in comminuted radial head fractures. Archives of Orthopaedic and Trauma Surgery, 2017, 137, 789-795.	2.4	24
47	Significance of Elecsys® S100 immunoassay for real-time assessment of traumatic brain damage in multiple trauma patients. Clinical Chemistry and Laboratory Medicine, 2006, 44, 1140-5.	2.3	23
48	Visualization of stress fractures of the foot using PET-MRI: a feasibility study. European Journal of Medical Research, 2015, 20, 99.	2.2	22
49	Platelets modulate the immune response following trauma by interaction with CD4+ T regulatory cells in a mouse model. Immunologic Research, 2016, 64, 508-517.	2.9	22
50	Balloon osteoplastyâ€"a new technique for reduction and stabilisation of impression fractures in the tibial plateau: A cadaver study and first clinical application. International Orthopaedics, 2012, 36, 1937-1940.	1.9	21
51	Traumatic bilateral carotid artery dissection following severe blunt trauma: a case report on the difficulties in diagnosis and therapy of an often overlooked life-threatening injury. European Journal of Medical Research, 2015, 20, 62.	2.2	21
52	Precise proximal femur fracture classification for interactive training and surgical planning. International Journal of Computer Assisted Radiology and Surgery, 2020, 15, 847-857.	2.8	21
53	Effect of stress doses of hydrocortisone on S-100B vs. interleukin-8 and polymorphonuclear elastase levels in human septic shock. Clinical Chemistry and Laboratory Medicine, 2005, 43, 259-68.	2.3	20
54	The Munich Shoulder Questionnaire (MSQ): development and validation of an effective patient-reported tool for outcome measurement and patient safety in shoulder surgery. Patient Safety in Surgery, 2012, 6, 9.	2.3	20

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55	Does a minimal invasive approach reduce anterior chest wall numbness and postoperative pain in plate fixation of clavicle fractures?. BMC Musculoskeletal Disorders, 2015, 16, 128.	1.9	20
56	Concomitant intra-articular glenohumeral injuries in displaced fractures of the lateral clavicle. Knee Surgery, Sports Traumatology, Arthroscopy, 2017, 25, 3237-3241.	4.2	20
57	Validation of a new classification for periprosthetic shoulder fractures. International Orthopaedics, 2018, 42, 1371-1377.	1.9	20
58	Rapid measurement of S-100B serum protein levels by Elecsys S100 immunoassay in patients undergoing carotid artery stenting or endarterectomy. Clinical Biochemistry, 2006, 39, 349-356.	1.9	19
59	The importance of immediate total-body CT scanning. Lancet, The, 2017, 389, 502-503.	13.7	19
60	Assessment of Early Brain Damage in Carotid Endarterectomy: Evaluation of S-100B Serum Levels and Somatosensory Evoked Potentials in a Pilot Study. World Journal of Surgery, 2002, 26, 1251-1255.	1.6	18
61	Balloon osteoplastyâ€"a new technique for minimally invasive reduction and stabilisation of Hillâ€"Sachs lesions of the humeral head: a cadaver study. International Orthopaedics, 2012, 36, 2287-91.	1.9	16
62	Ischemia at $4\hat{A}^{\circ}$ C: a novel mouse model to investigate the effect of hypothermia on postischemic hepatic microcirculatory injury. Research in Experimental Medicine, 2001, 200, 93-105.	0.7	15
63	The Munich Knee Questionnaire: Development and Validation of a New Patient-Reported Outcome Measurement Tool for Knee Disorders. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2015, 31, 1522-1529.	2.7	15
64	The Munich Wrist Questionnaire (MWQ) – development and validation of a new patient-reported outcome measurement tool for wrist disorders. BMC Musculoskeletal Disorders, 2016, 17, 167.	1.9	15
65	Effect of digital cellular phones on tachyarrhythmia analysis of automated external defibrillators. European Journal of Emergency Medicine, 2004, 11, 75-80.	1.1	14
66	Current management of trimalleolar ankle fractures. EFORT Open Reviews, 2021, 6, 692-703.	4.1	14
67	Evaluation of Acute Glial Fibrillary Acidic Protein and Ubiquitin C-Terminal Hydrolase-L1 Plasma Levels in Traumatic Brain Injury Patients with and without Intracranial Lesions. Neurotrauma Reports, 2021, 2, 617-625.	1.4	14
68	Pathway Analysis in Microarray Data. Shock, 2011, 35, 245-251.	2.1	13
69	Mid-term outcome following revision surgery of clavicular non- and malunion using anatomic locking compression plate and iliac crest bone graft. BMC Musculoskeletal Disorders, 2017, 18, 129.	1.9	13
70	The posttraumatic activation of CD4+ T regulatory cells is modulated by TNFR2- and TLR4-dependent pathways, but not by IL-10. Cellular Immunology, 2018, 331, 137-145.	3.0	13
71	Malpositioned olecranon fracture tension-band wiring results in proximal radioulnar synostosis. European Journal of Medical Research, 2015, 20, 87.	2.2	12
72	Additional calcar support using a blade device reduces secondary varus displacement following reconstruction of the proximal humerus: a prospective study. European Journal of Medical Research, 2015, 20, 82.	2.2	12

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73	Automatic Classification of Proximal Femur Fractures Based on Attention Models. Lecture Notes in Computer Science, 2017, , 70-78.	1.3	12
74	Trauma Induces Interleukin-17A Expression on Th17 Cells and CD4+ Regulatory T Cells as Well as Platelet Dysfunction. Frontiers in Immunology, 2019, 10, 2389.	4.8	12
75	Curriculum learning for improved femur fracture classification: Scheduling data with prior knowledge and uncertainty. Medical Image Analysis, 2022, 75, 102273.	11.6	12
76	Management of Pilon Fracturesâ€"Current Concepts. Frontiers in Surgery, 2021, 8, 764232.	1.4	12
77	INITIAL POSTTRAUMATIC TRANSLOCATION OF NF-κB AND TNF-α mRNA EXPRESSION IN PERIPHERAL BLOOD MONOCYTES OF TRAUMA PATIENTS WITH MULTIPLE INJURIES: A PILOT STUDY. Shock, 2004, 22, 527-532.	2.1	11
78	Effect of private versus emergency medical systems transportation in trauma patients in a mostly physician based system- a retrospective multicenter study based on the TraumaRegister DGU®. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2016, 24, 60.	2.6	11
79	Is early full weight bearing safe following locking plate ORIF of distal fibula fractures?. BMC Musculoskeletal Disorders, 2021, 22, 159.	1.9	9
80	Does implant removal of superior clavicle plate osteosynthesis affect the functional outcome: a prospective trial. Archives of Orthopaedic and Trauma Surgery, 2022, 142, 139-144.	2.4	8
81	Augmentation of simultaneous acetabular and femoral neck fracture in osteogenesis imperfecta using photodynamic bone stabilization — A case report. Trauma Case Reports, 2019, 24, 100200.	0.4	7
82	Excellent clinical and radiological outcome following locking compression plate fixation of displaced medial clavicle fractures. BMC Musculoskeletal Disorders, 2021, 22, 905.	1.9	7
83	Platelets differentially modulate CD4+ Treg activation via GPIIa/IIIb-, fibrinogen-, and PAR4-dependent pathways. Immunologic Research, 2022, 70, 185-196.	2.9	7
84	Hemorrhage and Subsequent Allogenic Red Blood Cell Transfusion are Associated With Characteristic Monocyte Messenger RNA Expression Patterns in Patients After Multiple Injury—A Genome Wide View. Journal of Trauma, 2009, 67, 792-801.	2.3	6
85	Increased activation of the transcription factor c-Jun by MAP kinases in monocytes of multiple trauma patients is associated with adverse outcome and mass transfusion. Journal of Surgical Research, 2012, 178, 385-389.	1.6	6
86	Emergency Cesarean Section Due to Acute Aortic Dissection Type A (Debakey I) without Marfan Syndrome: A Case Report and Review of the Literature. Journal of Emergency Medicine, 2014, 46, e13-e17.	0.7	6
87	Significant Cytokine mRNA Expression Changes Immediately after Initiation of Cardiopulmonary Resuscitation. Mediators of Inflammation, 2017, 2017, 1-10.	3.0	6
88	Analysis of the bony geometry of the acromio-clavicular joint. European Journal of Medical Research, 2018, 23, 50.	2.2	6
89	The influence of foehn winds on the incidence of severe injuries in southern Bavaria – an analysis of the TraumaRegister DGU®. BMC Musculoskeletal Disorders, 2020, 21, 568.	1.9	6
90	The posttraumatic response of CD4+ regulatory T cells is modulated by direct cell-cell contact via CD40L- and P-selectin-dependent pathways. Central-European Journal of Immunology, 2021, 46, 283-294.	1,2	6

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91	Analysis of NF-κB Nuclear Translocation in PMN-neutrophils of Major Trauma Patients in the Early Post-traumatic Period: A Pilot Study. World Journal of Surgery, 2006, 30, 2142-2151.	1.6	5
92	Stress-Related Job Analysis for Medical Students on Surgical Wards in Germany. Journal of Surgical Education, 2017, 74, 145-153.	2.5	5
93	The Munich Ankle Questionnaire (MAQ): a self-assessment tool for a comprehensive evaluation of ankle disorders. European Journal of Medical Research, 2018, 23, 46.	2.2	5
94	Dysregulation of Wnt signaling in bone of type 2 diabetes mellitus and diabetic Charcot arthropathy. BMC Musculoskeletal Disorders, 2022, 23, 365.	1.9	5
95	Re: Mono- versus polyaxial locking plates in distal femur fractures: a prospective randomized multicentre clinical trial. International Orthopaedics, 2014, 38, 1751-1752.	1.9	4
96	Evaluation of a new imaging tool for use with major trauma cases in the emergency department. BMC Musculoskeletal Disorders, 2016, 17, 482.	1.9	4
97	Balloon-guided inflation osteoplasty in the treatment of Hill-Sachs lesions of the humeral head: case report of a new technique. Patient Safety in Surgery, 2016, 10, 4.	2.3	4
98	Return to sports after plate fixation of humeral head fractures 65 cases with minimum 24-month follow-up. BMC Musculoskeletal Disorders, 2017, 18, 173.	1.9	4
99	Polymorphonuclear (PMN) elastase in patients after severe traumatic brain injury. European Journal of Medical Research, 2018, 23, 44.	2.2	4
100	Polyaxial locking plates in treating distal humeral fractures: a comparative randomized trial for clinical outcome. BMC Musculoskeletal Disorders, 2017, 18, 547.	1.9	3
101	Development of a German fracture register to assess current fracture care and improve treatment quality. EFORT Open Reviews, 2017, 2, 474-477.	4.1	3
102	The potential of adipokines in identifying multiple trauma patients at risk of developing multiple organ dysfunction syndrome. European Journal of Medical Research, 2021, 26, 38.	2.2	3
103	Patient reported outcome of 33 operatively treated talar fractures. BMC Musculoskeletal Disorders, 2021, 22, 698.	1.9	3
104	Revision rate is higher in patients with periprosthetic femur fractures following revision arthroplasty in comparison with ORIF following our algorithm: a two-center 1 analysis of 129 patients. European Journal of Trauma and Emergency Surgery, 2021 , 1 .	1.7	3
105	Initial RNA expression in human monocytes after multiple injury: a screening pilot study on potentially trauma-sensitive factors by using the microarray-technique. European Journal of Medical Research, 2003, 8, 473-84.	2.2	3
106	The Clinical Impact of Platelets on Post-Injury Serum Creatinine Concentration in Multiple Trauma Patients: A Retrospective Cohort Study. Medicina (Lithuania), 2022, 58, 901.	2.0	3
107	Reply to letter to the editor: "ls balloon osteoplasty attractive or questionable treatment for Hill-Sachs lesions?― International Orthopaedics, 2012, 36, 2599-2600.	1.9	2
108	Outcome after polyaxial locking plate osteosynthesis in proximal tibia fractures: a prospective clinical trial. BMC Musculoskeletal Disorders, 2021, 22, 286.	1.9	2

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109	Evaluation of ankle fracture classification systems in 193 trimalleolar ankle fractures. European Journal of Trauma and Emergency Surgery, 2022, 48, 4181-4188.	1.7	2
110	Correlation between Platelet Count and Lung Dysfunction in Multiple Trauma Patientsâ€"A Retrospective Cohort Analysis. Journal of Clinical Medicine, 2022, 11, 1400.	2.4	2
111	Early Dynamics of Cerebrospinal CD14+ Monocytes and CD15+ Granulocytes in Patients after Severe Traumatic Brain Injury: A Cohort Study. Mediators of Inflammation, 2015, 2015, 1-7.	3.0	1
112	Patient-Reported Outcome Following Operative and Conservative Treatment of Calcaneal Fractures: A Retrospective Analysis of 79 Patients at Short- to Midterm Follow-Up. Frontiers in Surgery, 2021, 8, 620964.	1.4	1
113	RAY-POS: a LIDAR-based assistance system for intraoperative repositioning of mobile C-arms without external aids. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 719-729.	2.8	1
114	Clinical and Radiological Outcome of Vancouver B2 Fracture Treated With Open Reduction and Internal Fixation. A Multicenter Cohort Analysis. Journal of Orthopaedic Trauma, 2022, 36, e306-e311.	1.4	1
115	Treatment of vascular graft infections: gentamicin-coated ePTFE grafts reveals strong antibacterial properties in vitro. Journal of Materials Science: Materials in Medicine, 2022, 33, 30.	3.6	1
116	Results of a Retrospective Fracture Register of Distal Radius Fractures Built Up Using PROM. Frontiers in Surgery, 2022, 9, 854828.	1.4	1
117	Neutrophil Gene Expression Patterns in Multiple Trauma Patients Indicate Distinct Clinical Outcomes. Journal of Surgical Research, 2022, 277, 100-109.	1.6	1
118	S100 biomarkers in patients with traumatic brain injury. , 2020, , 155-167.		0
119	Good to Excellent Functional Outcome and High Return to Sports Rate after Operative Treatment of Unstable Lateral Clavicle Fractures: Comparison of Two Coracoclavicular Button Fixation Techniques. Journal of Clinical Medicine, 2021, 10, 4685.	2.4	0
120	Multiple Injury. Strategies in Fracture Treatments, 2015, , 61-66.	0.1	0
121	Preparation of hospitals for mass casualty incidents in Bavaria, Germany: care capacities for penetrating injuries and explosions in TerrorMASCALs. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2021, 29, 156.	2.6	0
122	Functional outcome of 103 fractures of the proximal fifth metatarsal bone. European Journal of Medical Research, 2021, 26, 150.	2.2	0