Egon Burian

List of Publications by Year
in descending order

40	728	567281	580821
40	**728**	**15**	**25**
papers	citations	h-index	g-index
41	**41**	**41**	**981**
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Federated deep learning for detecting COVID-19 lung abnormalities in CT: a privacy-preserving multinational validation study. Npj Digital Medicine, 2021, 4, 60.	10.9	134
2	Intensive Care Risk Estimation in COVID-19 Pneumonia Based on Clinical and Imaging Parameters: Experiences from the Munich Cohort. Journal of Clinical Medicine, 2020, 9, 1514.	2.4	60
3	Bone regeneration of minipig mandibular defect by adipose derived mesenchymal stem cells seeded tri-calcium phosphate- poly(D,L-lactide-co-glycolide) scaffolds. Scientific Reports, 2020, 10, 2062.	3.3	59
4	Automatic opportunistic osteoporosis screening in routine CT: improved prediction of patients with prevalent vertebral fractures compared to DXA. European Radiology, 2021, 31, 6069-6077.	4.5	50
5	Ibandronate treatment of diffuse sclerosing osteomyelitis of the mandible: Pain relief and insight into pathogenesis. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 1837-1842.	1.7	37
6	Texture analysis of vertebral bone marrow using chemical shift encoding–based water-fat MRI: a feasibility study. Osteoporosis International, 2019, 30, 1265-1274.	3.1	30
7	Associations of thigh muscle fat infiltration with isometric strength measurements based on chemical shift encoding-based water-fat magnetic resonance imaging. European Radiology Experimental, 2019, 3, 45.	3.4	27
8	MRI of the inferior alveolar nerve and lingual nerve–anatomical variation and morphometric benchmark values of nerve diameters in healthy subjects. Clinical Oral Investigations, 2020, 24, 2625-2634.	3.0	25
9	Gender- and Age-Related Changes in Trunk Muscle Composition Using Chemical Shift Encoding-Based Water–Fat MRI. Nutrients, 2018, 10, 1972.	4.1	21
10	High resolution MRI for quantitative assessment of inferior alveolar nerve impairment in course of mandible fractures: an imaging feasibility study. Scientific Reports, 2020, 10, 11566.	3.3	21
11	Opportunistic Osteoporosis Screening Reveals Low Bone Density in Patients With Screw Loosening After Lumbar Semi-Rigid Instrumentation: A Case-Control Study. Frontiers in Endocrinology, 2020, 11, 552719.	3.5	21
12	Custom-milled individual allogeneic bone grafts for alveolar cleft osteoplasty–A technical note. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 1955-1961.	1.7	20
13	Magnetic resonance imaging based <scp>computer–guided</scp> dental implant surgery–A clinical pilot study. Clinical Implant Dentistry and Related Research, 2020, 22, 612-621.	3.7	20
14	Denosumab as a potential treatment alternative for patients suffering from diffuse sclerosing osteomyelitis of the mandible–A rapid communication. Journal of Cranio-Maxillo-Facial Surgery, 2018, 46, 534-537.	1.7	19
15	Fluorescence based characterization of early oral squamous cell carcinoma using the Visually Enhanced Light Scope technique. Journal of Cranio-Maxillo-Facial Surgery, 2017, 45, 1526-1530.	1.7	18
16	Vertebral Bone Marrow Heterogeneity Using Texture Analysis of Chemical Shift Encoding-Based MRI: Variations in Age, Sex, and Anatomical Location. Frontiers in Endocrinology, 2020, 11, 555931.	3.5	14
17	Initial Raymond–Roy Occlusion Classification but not Packing Density Defines Risk for Recurrence after Aneurysm Coiling. Clinical Neuroradiology, 2021, 31, 391-399.	1.9	14
18	Assessment of paraspinal muscle characteristics, lumbar BMD, and their associations in routine multi-detector CT of patients with and without osteoporotic vertebral fractures. European Journal of Radiology, 2020, 125, 108867.	2.6	13

#	Article	IF	Citations
19	Lumbar muscle and vertebral bodies segmentation of chemical shift encoding-based water-fat MRI: the reference database MyoSegmenTUM spine. BMC Musculoskeletal Disorders, 2019, 20, 152.	1.9	10
20	Geometric accuracy of magnetic resonance imaging<scp>–</scp>derived virtual <scp>3‐dimensional</scp> bone surface models of the mandible in comparison to computed tomography and cone beam computed tomography<scp>:</scp> A porcine cadaver study. Clinical Implant Dentistry and Related Research, 2021, 23, 779-788.	3.7	9
21	Prediction of Incidental Osteoporotic Fractures at Vertebral-Specific Level Using 3D Non-Linear Finite Element Parameters Derived from Routine Abdominal MDCT. Diagnostics, 2021, 11, 208.	2.6	9
22	Age- and BMI-related variations of fat distribution in sacral and lumbar bone marrow and their association with local muscle fat content. Scientific Reports, 2020, 10, 9686.	3.3	8
23	Age- and gender-related variations of cervical muscle composition using chemical shift encoding-based water-fat MRI. European Journal of Radiology, 2020, 125, 108904.	2.6	8
24	Texture Features of Proton Density Fat Fraction Maps from Chemical Shift Encoding-Based MRI Predict Paraspinal Muscle Strength. Diagnostics, 2021, 11, 239.	2.6	8
25	Texture Analysis Using CT and Chemical Shift Encoding-Based Water-Fat MRI Can Improve Differentiation Between Patients With and Without Osteoporotic Vertebral Fractures. Frontiers in Endocrinology, 2021, 12, 778537.	3.5	8
26	Regional variation of thigh muscle fat infiltration in patients with neuromuscular diseases compared to healthy controls. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2610-2621.	2.0	7
27	MRI-Determined Psoas Muscle Fat Infiltration Correlates with Severity of Weight Loss during Cancer Cachexia. Cancers, 2021, 13, 4433.	3.7	7
28	Prediction of incident vertebral fractures in routine MDCT: Comparison of global texture features, 3D finite element parameters and volumetric BMD. European Journal of Radiology, 2021, 141, 109827.	2.6	6
29	Regional variation in paraspinal muscle composition using chemical shift encoding-based water-fat MRI. Quantitative Imaging in Medicine and Surgery, 2020, 10, 496-507.	2.0	5
30	Association of thigh and paraspinal muscle composition in young adults using chemical shift encoding-based water–fat MRI. Quantitative Imaging in Medicine and Surgery, 2020, 10, 128-136.	2.0	5
31	MDCT-Based Finite Element Analyses: Are Measurements at the Lumbar Spine Associated with the Biomechanical Strength of Functional Spinal Units of Incidental Osteoporotic Fractures along the Thoracolumbar Spine?. Diagnostics, 2021, 11, 455.	2.6	5
32	Longitudinal Assessment of Health and Quality of Life of COVID-19 Patients Requiring Intensive Care—An Observational Study. Journal of Clinical Medicine, 2021, 10, 5469.	2.4	5
33	Local Bone Mineral Density, Subcutaneous and Visceral Adipose Tissue Measurements in Routine Multi Detector Computed Tomography—Which Parameter Predicts Incident Vertebral Fractures Best?. Diagnostics, 2021, 11, 240.	2.6	4
34	SARS-CoV-2 serology increases diagnostic accuracy in CT-suspected, PCR-negative COVID-19 patients during pandemic. Respiratory Research, 2021, 22, 119.	3.6	4
35	Robust, Primitive, and Unsupervised Quality Estimation for Segmentation Ensembles. Frontiers in Neuroscience, 2021, 15, 752780.	2.8	4
36	Comparison of CT, MRI, and F-18 FDG PET/CT for initial N-staging of oral squamous cell carcinoma: a cost-effectiveness analysis. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 3870-3877.	6.4	4

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37	Multi-detector computed tomography (MDCT) imaging: association of bone texture parameters with finite element analysis (FEA)-based failure load of single vertebrae and functional spinal units. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2955-2967.	2.0	3
38	Association of Cervical and Lumbar Paraspinal Muscle Composition Using Texture Analysis of MR-Based Proton Density Fat Fraction Maps. Diagnostics, 2021, 11, 1929.	2.6	3
39	Association of Thigh Muscle Strength with Texture Features Based on Proton Density Fat Fraction Maps Derived from Chemical Shift Encoding-Based Water–Fat MRI. Diagnostics, 2021, 11, 302.	2.6	2
40	Low-dose MDCT: evaluation of the impact of systematic tube current reduction and sparse sampling on quantitative paraspinal muscle assessment. Quantitative Imaging in Medicine and Surgery, 2021, 11, 3042-3050.	2.0	0