

Eyal Klang

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

3,279
citations

218677
26
h-index

206112
48
g-index

115
all docs

115
docs citations

115
times ranked

4447
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic data augmentation using GAN for improved liver lesion classification. , 2018, , .		393
2	Convolutional Neural Networks for Radiologic Images: A Radiologist's Guide. Radiology, 2019, 290, 590-606.	7.3	339
3	Severe Obesity as an Independent Risk Factor for COVID-19 Mortality in Hospitalized Patients Younger than 50. Obesity, 2020, 28, 1595-1599.	3.0	238
4	Deep learning algorithms for automated detection of Crohn's disease ulcers by video capsule endoscopy. Gastrointestinal Endoscopy, 2020, 91, 606-613.e2.	1.0	149
5	Deep learning for wireless capsule endoscopy: a systematic review and meta-analysis. Gastrointestinal Endoscopy, 2020, 92, 831-839.e8.	1.0	138
6	Detection of Small Bowel Mucosal Healing and Deep Remission in Patients With Known Small Bowel Crohn's Disease Using Biomarkers, Capsule Endoscopy, and Imaging. American Journal of Gastroenterology, 2015, 110, 1316-1323.	0.4	125
7	Deep Learning for Natural Language Processing in Radiology's Fundamentals and a Systematic Review. Journal of the American College of Radiology, 2020, 17, 639-648.	1.8	113
8	Federated Learning of Electronic Health Records to Improve Mortality Prediction in Hospitalized Patients With COVID-19: Machine Learning Approach. JMIR Medical Informatics, 2021, 9, e24207.	2.6	108
9	Creating Artificial Images for Radiology Applications Using Generative Adversarial Networks (GANs) – A Systematic Review. Academic Radiology, 2020, 27, 1175-1185.	2.5	92
10	Deep learning and medical imaging. Journal of Thoracic Disease, 2018, 10, 1325-1328.	1.4	81
11	The Impact of Magnetic Resonance Enterography and Capsule Endoscopy on the Re-classification of Disease in Patients with Known Crohn's Disease: A Prospective Israeli IBD Research Nucleus (IIRN) Study. Journal of Crohn's and Colitis, 2016, 10, 525-531.	1.3	64
12	Assessment of small bowel mucosal healing by video capsule endoscopy for the prediction of short-term and long-term risk of Crohn's disease flare: a prospective cohort study. The Lancet Gastroenterology and Hepatology, 2019, 4, 519-528.	8.1	63
13	A Gradient Boosting Machine Learning Model for Predicting Early Mortality in the Emergency Department Triage: Devising a Nine-Point Triage Score. Journal of General Internal Medicine, 2020, 35, 220-227.	2.6	60
14	Deep learning visual analysis in laparoscopic surgery: a systematic review and diagnostic test accuracy meta-analysis. Surgical Endoscopy and Other Interventional Techniques, 2021, 35, 1521-1533.	2.4	60
15	Prediction of patency capsule retention in known Crohn's disease patients by using magnetic resonance imaging. Gastrointestinal Endoscopy, 2016, 83, 182-187.	1.0	57
16	Ulcer severity grading in video capsule images of patients with Crohn's disease: an ordinal neural network solution. Gastrointestinal Endoscopy, 2021, 93, 187-192.	1.0	56
17	Overuse of CT and MRI in paediatric emergency departments. British Journal of Radiology, 2018, 91, 20170434.	2.2	53
18	Distribution of Mediastinal Lesions Across Multi-Institutional, International, Radiology Databases. Journal of Thoracic Oncology, 2020, 15, 568-579.	1.1	47

#	ARTICLE	IF	CITATIONS
19	Automated Detection of Crohn's Disease Intestinal Strictures on Capsule Endoscopy Images Using Deep Neural Networks. Journal of Crohn's and Colitis, 2021, 15, 749-756.	1.3	43
20	Magnetic resonance enterography <i>versus</i> capsule endoscopy activity indices for quantification of small bowel inflammation in Crohn's disease. Therapeutic Advances in Gastroenterology, 2016, 9, 655-663.	3.2	41
21	A review of magnetic resonance enterography-based indices for quantification of Crohn's disease inflammation. Therapeutic Advances in Gastroenterology, 2018, 11, 175628481876595.	3.2	38
22	Overuse of Head CT Examinations for the Investigation of Minor Head Trauma: Analysis of Contributing Factors. Journal of the American College of Radiology, 2017, 14, 171-176.	1.8	37
23	MEWS++: Enhancing the Prediction of Clinical Deterioration in Admitted Patients through a Machine Learning Model. Journal of Clinical Medicine, 2020, 9, 343.	2.4	37
24	The association between obesity and peak antibody titer response in COVID-19 infection. Obesity, 2021, 29, 1547-1553.	3.0	35
25	CT Image-based Decision Support System for Categorization of Liver Metastases Into Primary Cancer Sites. Academic Radiology, 2017, 24, 1501-1509.	2.5	32
26	History of Stroke Is Independently Associated With In-Hospital Death in Patients With COVID-19. Stroke, 2020, 51, 3112-3114.	2.0	32
27	Moderate or Severe Impairment in Pulmonary Function is Associated with Mortality in Sarcoidosis Patients Infected with SARS-CoV-2. Lung, 2020, 198, 771-775.	3.3	31
28	Artificial Intelligence for Interstitial Lung Disease Analysis on Chest Computed Tomography: A Systematic Review. Academic Radiology, 2022, 29, S226-S235.	2.5	29
29	Efficacy and Safety of Third Dose of the COVID-19 Vaccine among Solid Organ Transplant Recipients: A Systemic Review and Meta-Analysis. Vaccines, 2022, 10, 95.	4.4	28
30	Autoimmune and Chronic Inflammatory Disease Patients with COVID-19. ACR Open Rheumatology, 2021, 3, 111-115.	2.1	25
31	Prevalence and awareness of sacroiliac joint alterations on lumbar spine CT in low back pain patients younger than 40 years. Acta Radiologica, 2017, 58, 449-455.	1.1	24
32	Deep-learning natural language processing for oncological applications. Lancet Oncology, The, 2020, 21, 1553-1556.	10.7	23
33	The Impact of the Coronavirus Disease 2019 Outbreak on the Attendance of Patients with Surgical Complaints at a Tertiary Hospital Emergency Department. Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A, 2020, 30, 1001-1007.	1.0	23
34	Serum MMP-9: a novel biomarker for prediction of clinical relapse in patients with quiescent Crohn's disease, a <i>post hoc</i> analysis. Therapeutic Advances in Gastroenterology, 2019, 12, 175628481988159.	3.2	21
35	Predicting adult neuroscience intensive care unit admission from emergency department triage using a retrospective, tabular-free text machine learning approach. Scientific Reports, 2021, 11, 1381.	3.3	20
36	Comparison of deep learning models for natural language processing-based classification of non-English head CT reports. Neuroradiology, 2020, 62, 1247-1256.	2.2	19

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37	Seroconversion Following SARS-CoV-2 Infection or Vaccination in Pediatric IBD Patients. Inflammatory Bowel Diseases, 2021, 27, 1862-1864.	1.9	19
38	Trend in radiologist workload compared to number of admissions in the emergency department. European Journal of Radiology, 2022, 149, 110195.	2.6	17
39	Jejunal Diverticulitis. Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A, 2016, 26, 596-599.	1.0	16
40	Fully automatic detection of renal cysts in abdominal CT scans. International Journal of Computer Assisted Radiology and Surgery, 2018, 13, 957-966.	2.8	16
41	Detection of Pathologically Proven Silicone Lymphadenopathy: Ultrasonography Versus Magnetic Resonance Imaging. Journal of Ultrasound in Medicine, 2018, 37, 969-975.	1.7	16
42	Promoting head CT exams in the emergency department triage using a machine learning model. Neuroradiology, 2020, 62, 153-160.	2.2	16
43	Multi-phase liver lesions classification using relevant visual words based on mutual information. , 2015, , .		15
44	Structural bowel damage in quiescent Crohn's disease. Digestive and Liver Disease, 2017, 49, 490-494.	0.9	15
45	Fat necrosis after abdominal surgery: A pitfall in interpretation of FDG-PET/CT. European Radiology, 2018, 28, 2264-2272.	4.5	15
46	Quantitative CT Assessment of Gynecomastia in the General Population and in Dialysis, Cirrhotic, and Obese Patients. Academic Radiology, 2018, 25, 626-635.	2.5	15
47	Diffusion-weighted magnetic resonance enterography for prediction of response to tumor necrosis factor inhibitors in stricturing Crohn's disease. Abdominal Radiology, 2018, 43, 3207-3212.	2.1	15
48	Splenic Pregnancy: A New Minimally Invasive Approach to Treatment. CardioVascular and Interventional Radiology, 2016, 39, 1339-1342.	2.0	14
49	Capsule Endoscopy Validation of the Magnetic Enterography Global Score in Patients with Established Crohn's Disease. Journal of Crohn's and Colitis, 2018, 12, 313-320.	1.3	13
50	Automated quantitative assessment of oncological disease progression using deep learning. Annals of Translational Medicine, 2019, 7, S379-S379.	1.7	13
51	Predicting In-Hospital Mortality at Admission to the Medical Ward: A Big-Data Machine Learning Model. American Journal of Medicine, 2021, 134, 227-234.e4.	1.5	13
52	Automated method for detection and segmentation of liver metastatic lesions in follow-up CT examinations. Journal of Medical Imaging, 2015, 2, 034502.	1.5	12
53	Monitoring of small bowel Crohn's disease. Expert Review of Gastroenterology and Hepatology, 2017, 11, 1047-1058.	3.0	12
54	Magnetic resonance imaging of pelvic entheses—a systematic comparison between short tau inversion recovery (STIR) and T1-weighted, contrast-enhanced, fat-saturated sequences. Skeletal Radiology, 2014, 43, 499-505.	2.0	11

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55	Rhabdomyosarcoma disease spread evaluation on CT scans: Association with primary tumor size and Ki-67 proliferation marker. <i>Clinical Imaging</i> , 2019, 56, 41-46.	1.5	11
56	Differentiation Between Malignant and Benign Endoscopic Images of Gastric Ulcers Using Deep Learning. <i>Clinical and Experimental Gastroenterology</i> , 2021, Volume 14, 155-162.	2.3	11
57	A Convolutional Neural Network Deep Learning Model Trained on CD Ulcers Images Accurately Identifies NSAID Ulcers. <i>Frontiers in Medicine</i> , 2021, 8, 656493.	2.6	10
58	Artificial Intelligence and Health Care Disparities in Radiology. <i>Radiology</i> , 2021, 301, E443-E443.	7.3	10
59	FDG PET/CT radiomics as a tool to differentiate between reactive axillary lymphadenopathy following COVID-19 vaccination and metastatic breast cancer axillary lymphadenopathy: a pilot study. <i>European Radiology</i> , 2022, 32, 5921-5929.	4.5	10
60	A Single Tertiary Center 10-Year Experience in the Surgical Management of Gastrointestinal Bezoars. <i>Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A</i> , 2018, 28, 967-971.	1.0	9
61	Association between COVID-19 diagnosis and presenting chief complaint from New York City triage data. <i>American Journal of Emergency Medicine</i> , 2021, 46, 520-524.	1.6	9
62	CT measurement of breast glandular tissue and its association with testicular cancer. <i>European Radiology</i> , 2017, 27, 536-542.	4.5	8
63	Quantification of US Food and Drug Administration Premarket Approval Statements for High-Risk Medical Devices With Pediatric Age Indications. <i>JAMA Network Open</i> , 2021, 4, e2112562.	5.9	8
64	Assessment of patency capsule retention using MR diffusion-weighted imaging. <i>European Radiology</i> , 2017, 27, 4979-4985.	4.5	7
65	Yield of head CT for acute findings in patients presenting to the emergency department. <i>Clinical Imaging</i> , 2021, 73, 1-5.	1.5	7
66	Trends in inflammatory bowel disease treatment in the past two decades—a high-level text mining analysis of PubMed publications. <i>United European Gastroenterology Journal</i> , 2021, 9, 1019-1026.	3.8	7
67	Obesity as a mortality risk factor in the medical ward: a case control study. <i>BMC Endocrine Disorders</i> , 2022, 22, 13.	2.2	6
68	Torsed and Nontorsed Inguinal Undescended Testis. <i>Journal of Computer Assisted Tomography</i> , 2017, 41, 633-637.	0.9	5
69	Thromboprophylaxis for Hospitalized Patients with Inflammatory Bowel Disease—Are We There Yet?. <i>Journal of Clinical Medicine</i> , 2020, 9, 2753.	2.4	5
70	Evolution of Inflammatory Bowel Disease Research From a Bird's-Eye Perspective: A Text-Mining Analysis of Publication Trends and Topics. <i>Inflammatory Bowel Diseases</i> , 2021, 27, 434-439.	1.9	5
71	Alerting on mortality among patients discharged from the emergency department: a machine learning model. <i>Postgraduate Medical Journal</i> , 2022, 98, 166-171.	1.8	5
72	Role of Emergency Magnetic Resonance Imaging for the Workup of Suspected Appendicitis in Pregnant Women. <i>Israel Medical Association Journal</i> , 2016, 18, 600-604.	0.1	5

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73	Management of Acute Appendicitis during the COVID-19 Pandemic: A Single Tertiary Center Experience. Israel Medical Association Journal, 2021, 23, 269-273.	0.1	5
74	Innovation in Gastroenterologyâ€”Can We Do Better?. Biomimetics, 2022, 7, 33.	3.3	5
75	Association of normal systolic blood pressure in the emergency department with higher in-hospital mortality among hypertensive patients. Journal of Clinical Hypertension, 2019, 21, 1841-1848.	2.0	4
76	Gastric Banding: Complications Identified by CT. Obesity Surgery, 2019, 29, 499-505.	2.1	4
77	Evolution of colorectal cancer screening research in the past 25 years: text-mining analysis of publication trends and topics. Therapeutic Advances in Gastroenterology, 2020, 13, 175628482094115.	3.2	4
78	Artificial intelligence in colonoscopy. The Lancet Gastroenterology and Hepatology, 2021, 6, 984.	8.1	4
79	Oncological Applications of Deep Learning Generative Adversarial Networks. JAMA Oncology, 2022, 8, 677.	7.1	4
80	Sparsity-based liver metastases detection using learned dictionaries. , 2016, , .		3
81	Post hemorrhoidectomy complications: CT imaging findings. Clinical Imaging, 2020, 60, 216-221.	1.5	3
82	Incidental pulmonary embolism in CT scans of oncological patients with metastatic disease undergoing clinical trials: frequency and linkage with onset of disease progression (PE-PD) Tj ETQq0 0 0 rgBT /Overlook 10 Tf50 377 Td		
83	Post-mastectomy surveillance of <i>BRCA1</i> / <i>BRCA</i> 2 mutation carriers: Outcomes from a specialized clinic for high-risk breast cancer patients. Breast Journal, 2021, 27, 441-447.	1.0	3
84	Comment on â€œNatural Language Processing in Surgery: A Systematic Review and Meta-analysisâ€• Annals of Surgery, 2021, 274, e941-e942.	4.2	3
85	A Simple Free-Text-like Method for Extracting Semi-Structured Data from Electronic Health Records: Exemplified in Prediction of In-Hospital Mortality. Big Data and Cognitive Computing, 2021, 5, 40.	4.7	3
86	BERT for the Processing of Radiological Reports: An Attention-based Natural Language Processing Algorithm. Academic Radiology, 2022, 29, 634-635.	2.5	3
87	Synergistic effect of hypoalbuminaemia and hypotension in predicting in-hospital mortality and intensive care admission: a retrospective cohort study. BMJ Open, 2021, 11, e050216.	1.9	3
88	Machine Learning Model for Outcome Prediction of Patients Suffering from Acute Diverticulitis Arriving at the Emergency Departmentâ€”A Proof of Concept Study. Diagnostics, 2021, 11, 2102.	2.6	3
89	Association between Enlarged Axillary Lymph Nodes and Silicone Breast Implant Ruptures seen on Magnetic Resonance Imaging. Israel Medical Association Journal, 2016, 18, 719-724.	0.1	3
90	Weakly supervised attention model for RV strain classification from volumetric CTPA scans. Computer Methods and Programs in Biomedicine, 2022, 220, 106815.	4.7	3

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91	Prediction of Recurrent Emergency Department Visits among Patients with Crohn's Disease: A Retrospective Study. <i>Journal of Clinical Medicine</i> , 2020, 9, 3651.	2.4	2
92	Normal-range emergency department serum phosphorus levels and all-cause mortality. <i>Postgraduate Medical Journal</i> , 2021, 97, 83-88.	1.8	2
93	Pediatric literature trends: high-level analysis using text-mining. <i>Pediatric Research</i> , 2021, 90, 212-215.	2.3	2
94	Artificial Intelligence for the Evaluation of Mucosal Healing in IBD: The Future is Here. <i>Gastroenterology</i> , 2021, 161, 1073-1074.	1.3	2
95	Qualitative sonographic assessment of transmural ileal inflammation in Crohn's disease: a comparison with MRI activity score. <i>European Journal of Gastroenterology and Hepatology</i> , 2021, 33, 961-966.	1.6	2
96	Machine learning for prediction of intra-abdominal abscesses in patients with Crohn's disease visiting the emergency department. <i>Therapeutic Advances in Gastroenterology</i> , 2021, 14, 175628482110531.	3.2	2
97	The Effect of the COVID-19 Outbreak on Trauma-Related Visits to a Tertiary Hospital Emergency Department. <i>Israel Medical Association Journal</i> , 2021, 23, 82-86.	0.1	2
98	Weakly Supervised Multimodal 30-Day All-Cause Mortality Prediction for Pulmonary Embolism Patients. , 2022, , .		2
99	Predictors of mortality in inflammatory bowel disease patients treated for pneumonia. <i>Therapeutic Advances in Gastroenterology</i> , 2020, 13, 175628482093945.	3.2	1
100	Metastatic Collecting (Bellini) Duct Carcinoma Presented in a Young Patient: A Case Report and Review of the Literature. <i>Israel Medical Association Journal</i> , 2017, 19, 777-778.	0.1	1
101	Adverse Clinical Outcomes among Inflammatory Bowel Disease Patients Treated for Urinary Tract Infection. <i>Journal of Clinical Medicine</i> , 2022, 11, 1359.	2.4	1
102	Response by Kummer et al to Letter Regarding Article, "History of Stroke Is Independently Associated With In-Hospital Death in Patients With COVID-19". <i>Stroke</i> , 2021, 52, e31.	2.0	0
103	Machine Learning to Predict In-Hospital Mortality among Patients with Severe Obesity: Proof of Concept Study. <i>Obesity Science and Practice</i> , 0, , .	1.9	0
104	Target versus non-target lesions in determining disease progression: Analysis of 581 patients.. <i>Journal of Clinical Oncology</i> , 2019, 37, e18053-e18053.	1.6	0
105	Delayed Hyperdense Ascites in a Peritoneal Dialysis Patient after Contrast Injection. <i>Israel Medical Association Journal</i> , 2017, 19, 196-197.	0.1	0
106	Petersen Hernia in Pregnancy: A Report of Two Cases and Their Radiologic Findings. <i>Israel Medical Association Journal</i> , 2018, 20, 588-589.	0.1	0
107	Changes in <i>Helicobacter pylori</i> Treatment from Discovery to Nowadays: A High-Level Analysis of PubMed Publications. <i>Clinical and Experimental Gastroenterology</i> , 2022, Volume 15, 51-58.	2.3	0
108	Low Frequency of Folate and Vitamin B12 Deficiency in Patients with Marked Macrocytic Anemia. <i>Journal of General Internal Medicine</i> , 2022, , .	2.6	0

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109	Trends in inflammatory bowel disease infections and vaccinations in the past four decades: A high-level text mining analysis of PubMed publications. Human Vaccines and Immunotherapeutics, 2022, 18, 1-6.	3.3	0
110	Risk factors and prediction algorithm for advanced neoplasia on screening colonoscopy for average-risk individuals. Therapeutic Advances in Gastroenterology, 2022, 15, 175628482211012.	3.2	0