

Rania A Mekary

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

3,546
citations

172457

29
h-index

155660

55
g-index

103
all docs

103
docs citations

103
times ranked

5528
citing authors

#	ARTICLE	IF	CITATIONS
1	Traumatic Spinal Injury: Global Epidemiology and Worldwide Volume. <i>World Neurosurgery</i> , 2018, 113, e345-e363.	1.3	367
2	Isotemporal Substitution Paradigm for Physical Activity Epidemiology and Weight Change. <i>American Journal of Epidemiology</i> , 2009, 170, 519-527.	3.4	356
3	Eating patterns and type 2 diabetes risk in men: breakfast omission, eating frequency, and snacking. <i>American Journal of Clinical Nutrition</i> , 2012, 95, 1182-1189.	4.7	244
4	Global hydrocephalus epidemiology and incidence: systematic review and meta-analysis. <i>Journal of Neurosurgery</i> , 2019, 130, 1065-1079.	1.6	154
5	Relation Between Clinical Depression Risk and Physical Activity and Time Spent Watching Television in Older Women: A 10-Year Prospective Follow-up Study. <i>American Journal of Epidemiology</i> , 2011, 174, 1017-1027.	3.4	152
6	Eating patterns and type 2 diabetes risk in older women: breakfast consumption and eating frequency. <i>American Journal of Clinical Nutrition</i> , 2013, 98, 436-443.	4.7	140
7	Isotemporal Substitution Analysis for Physical Activity, Television Watching, and Risk of Depression. <i>American Journal of Epidemiology</i> , 2013, 178, 474-483.	3.4	123
8	Muscle-Strengthening and Conditioning Activities and Risk of Type 2 Diabetes: A Prospective Study in Two Cohorts of US Women. <i>PLoS Medicine</i> , 2014, 11, e1001587.	8.4	111
9	The endoscopic endonasal approach is not superior to the microscopic transcranial approach for anterior skull base meningiomas—a meta-analysis. <i>Acta Neurochirurgica</i> , 2018, 160, 59-75.	1.7	93
10	The Effect of Low-Fat and Low-Carbohydrate Diets on Weight Loss and Lipid Levels: A Systematic Review and Meta-Analysis. <i>Nutrients</i> , 2020, 12, 3774.	4.1	87
11	Gross total resection of pituitary adenomas after endoscopic vs. microscopic transsphenoidal surgery: a meta-analysis. <i>Acta Neurochirurgica</i> , 2018, 160, 1005-1021.	1.7	82
12	Estimating the Global Incidence of Aneurysmal Subarachnoid Hemorrhage: A Systematic Review for Central Nervous System Vascular Lesions and Meta-Analysis of Ruptured Aneurysms. <i>World Neurosurgery</i> , 2018, 115, 430-447.e7.	1.3	73
13	Can mHealth interventions improve quality of life of cancer patients? A systematic review and meta-analysis. <i>Critical Reviews in Oncology/Hematology</i> , 2021, 157, 103123.	4.4	59
14	Visual outcomes after endoscopic endonasal pituitary adenoma resection: a systematic review and meta-analysis. <i>Pituitary</i> , 2017, 20, 539-552.	2.9	55
15	Stereotactic radiosurgery versus whole-brain radiotherapy after intracranial metastasis resection: a systematic review and meta-analysis. <i>Radiation Oncology</i> , 2017, 12, 106.	2.7	54
16	Epidemiology of central nervous system infectious diseases: a meta-analysis and systematic review with implications for neurosurgeons worldwide. <i>Journal of Neurosurgery</i> , 2019, 130, 1107-1126.	1.6	49
17	Total antioxidant capacity intake and colorectal cancer risk in the Health Professionals Follow-up Study. <i>Cancer Causes and Control</i> , 2010, 21, 1315-1321.	1.8	48
18	Efficacy of transsphenoidal surgery in achieving biochemical cure of growth hormone-secreting pituitary adenomas among patients with cavernous sinus invasion: a systematic review and meta-analysis. <i>Neurological Research</i> , 2017, 39, 387-398.	1.3	48

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19	An estimation of global volume of surgically treatable epilepsy based on a systematic review and meta-analysis of epilepsy. <i>Journal of Neurosurgery</i> , 2019, 130, 1127-1141.	1.6	48
20	Joint association of glycemic load and alcohol intake with type 2 diabetes incidence in women. <i>American Journal of Clinical Nutrition</i> , 2011, 94, 1525-1532.	4.7	45
21	Weight training, aerobic physical activities, and long-term waist circumference change in men. <i>Obesity</i> , 2015, 23, 461-467.	3.0	44
22	Physical Activity in Relation to Long-term Weight Maintenance After Intentional Weight Loss in Premenopausal Women. <i>Obesity</i> , 2010, 18, 167-174.	3.0	43
23	Isotemporal Substitution as the Gold Standard Model for Physical Activity Epidemiology: Why It Is the Most Appropriate for Activity Time Research. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 797.	2.6	43
24	The Effectiveness of Antiepileptic Medications as Prophylaxis of Early Seizure in Patients with Traumatic Brain Injury Compared with Placebo or No Treatment: A Systematic Review and Meta-Analysis. <i>World Neurosurgery</i> , 2019, 122, 433-440.	1.3	42
25	Strength Training Prevents Hyperinsulinemia, Insulin Resistance, and Inflammation Independent of Weight Loss in Fructose-Fed Animals. <i>Scientific Reports</i> , 2016, 6, 31106.	3.3	37
26	Protective molecular mechanisms of clusterin against apoptosis in cardiomyocytes. <i>Heart Failure Reviews</i> , 2018, 23, 123-129.	3.9	37
27	The safety and efficacy of steroid treatment for acute spinal cord injury: A Systematic Review and meta-analysis. <i>Heliyon</i> , 2020, 6, e03414.	3.2	36
28	Physiologic Growth Hormone Replacement Therapy and Craniopharyngioma Recurrence in Pediatric Patients: A Meta-Analysis. <i>World Neurosurgery</i> , 2018, 109, 487-496.e1.	1.3	34
29	Short-term strength training reduces gluconeogenesis and NAFLD in obese mice. <i>Journal of Endocrinology</i> , 2019, 241, 59-70.	2.6	32
30	Effect of awake craniotomy in glioblastoma in eloquent areas (GLIOMAP): a propensity score-matched analysis of an international, multicentre, cohort study. <i>Lancet Oncology</i> , The, 2022, 23, 802-817.	10.7	31
31	Treadmill Slope Modulates Inflammation, Fiber Type Composition, Androgen, and Glucocorticoid Receptors in the Skeletal Muscle of Overtrained Mice. <i>Frontiers in Immunology</i> , 2017, 8, 1378.	4.8	30
32	Excessive training induces molecular signs of pathologic cardiac hypertrophy. <i>Journal of Cellular Physiology</i> , 2018, 233, 8850-8861.	4.1	30
33	Computed Tomography Angiography Versus Digital Subtraction Angiography for Postclipping Aneurysm Obliteration Detection. <i>Stroke</i> , 2019, 50, 381-388.	2.0	28
34	The combined use of steroids and immune checkpoint inhibitors in brain metastasis patients: a systematic review and meta-analysis. <i>Neuro-Oncology</i> , 2021, 23, 1261-1272.	1.2	28
35	A prognostic role for Low tri-iodothyronine syndrome in acute stroke patients: A systematic review and meta-analysis. <i>Clinical Neurology and Neurosurgery</i> , 2018, 169, 55-63.	1.4	26
36	The Efficacy of Antibacterial Prophylaxis Against the Development of Meningitis After Craniotomy: A Meta-Analysis. <i>World Neurosurgery</i> , 2016, 90, 597-603.e1.	1.3	24

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37	Risk of aspirin continuation in spinal surgery: a systematic review and meta-analysis. <i>Spine Journal</i> , 2017, 17, 1939-1946.	1.3	23
38	The endoscope-assisted supraorbital "keyhole" approach for anterior skull base meningiomas: an updated meta-analysis. <i>Acta Neurochirurgica</i> , 2021, 163, 661-676.	1.7	23
39	Regulation of hepatic TRB3/Akt interaction induced by physical exercise and its effect on the hepatic glucose production in an insulin resistance state. <i>Diabetology and Metabolic Syndrome</i> , 2015, 7, 67.	2.7	22
40	Recurrence of Rathke's cleft cysts based on gross total resection of cyst wall: a meta-analysis. <i>Neurosurgical Review</i> , 2020, 43, 957-966.	2.4	22
41	Long-Term Opioid Prescriptions After Spine Surgery: A Meta-Analysis of Prevalence and Risk Factors. <i>World Neurosurgery</i> , 2020, 141, e894-e920.	1.3	22
42	The survival effect of valproic acid in glioblastoma and its current trend: a systematic review and meta-analysis. <i>Clinical Neurology and Neurosurgery</i> , 2018, 174, 149-155.	1.4	19
43	Fibrinolytics and Intraventricular Hemorrhage: A Systematic Review and Meta-analysis. <i>Neurocritical Care</i> , 2020, 32, 262-271.	2.4	19
44	Time-restricted feeding combined with aerobic exercise training can prevent weight gain and improve metabolic disorders in mice fed a high-fat diet. <i>Journal of Physiology</i> , 2022, 600, 797-813.	2.9	19
45	Dexamethasone Administration and Mortality in Patients with Brain Abscess: A Systematic Review and Meta-Analysis. <i>World Neurosurgery</i> , 2018, 115, 257-263.	1.3	16
46	Substituting Sedentary Time With Physical Activity in Fibromyalgia and the Association With Quality of Life and Impact of the Disease: The "Andalus Project". <i>Arthritis Care and Research</i> , 2019, 71, 281-289.	3.4	16
47	The prevalence of complications associated with lumbar and thoracic spinal deformity surgery in the elderly population: a meta-analysis. <i>Journal of Spine Surgery</i> , 2019, 5, 223-235.	1.2	16
48	Task-Sharing for Emergency Neurosurgery: A Retrospective Cohort Study in the Philippines. <i>World Neurosurgery: X</i> , 2020, 6, 100058.	1.1	16
49	Endoscopic third ventriculostomy versus ventriculoperitoneal shunt in pediatric and adult population: a systematic review and meta-analysis. <i>Neurosurgical Review</i> , 2021, 44, 1227-1241.	2.4	16
50	Reduction versus In Situ Fusion for Adult High-Grade Spondylolisthesis: A Systematic Review and Meta-Analysis. <i>World Neurosurgery</i> , 2020, 138, 512-520.e2.	1.3	15
51	The Joint Association of Eating Frequency and Diet Quality With Colorectal Cancer Risk in the Health Professionals Follow-up Study. <i>American Journal of Epidemiology</i> , 2012, 175, 664-672.	3.4	14
52	The Safety and Efficacy of Tranexamic Acid in Adult Spinal Deformity Surgery: A Systematic Review and Meta-Analysis. <i>Drugs</i> , 2019, 79, 1679-1688.	10.9	14
53	Exercise decreases CLK2 in the liver of obese mice and prevents hepatic fat accumulation. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 5885-5892.	2.6	13
54	Smartphone GPS signatures of patients undergoing spine surgery correlate with mobility and current gold standard outcome measures. <i>Journal of Neurosurgery: Spine</i> , 2021, 35, 796-806.	1.7	13

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55	Long-Term Durability of Open Surgical versus Endovascular Repair of Intracranial Aneurysms: A Systematic Review and Meta-Analysis. <i>World Neurosurgery</i> , 2019, 132, e820-e833.	1.3	12
56	Surgical Outcomes of Endoscopic Versus Open Resection for Primary Sinonasal Malignancy: A Meta-analysis. <i>American Journal of Rhinology and Allergy</i> , 2019, 33, 608-616.	2.0	12
57	Fertility after transsphenoidal surgery in patients with prolactinomas: A meta-analysis. <i>Clinical Neurology and Neurosurgery</i> , 2019, 176, 53-60.	1.4	12
58	Pearls for Interpreting Neurosurgical Systematic Reviews and Meta-Analyses: Lessons From a Collaborative Effort. <i>Neurosurgery</i> , 2020, 87, 435-441.	1.1	12
59	Differences in outcomes of mandatory motorcycle helmet legislation by country income level: A systematic review and meta-analysis. <i>PLoS Medicine</i> , 2021, 18, e1003795.	8.4	12
60	Programmed Death Receptor Ligand One Expression May Independently Predict Survival in Patients With Non-Small Cell Lung Carcinoma Brain Metastases Receiving Immunotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 108, 258-267.	0.8	11
61	Intraoperative Magnetic Resonance Imaging for Low-Grade and High-Grade Gliomas: What Is the Evidence? A Meta-Analysis. <i>World Neurosurgery</i> , 2021, 149, 232-243.e3.	1.3	11
62	Safety and Efficacy of Antibacterial Prophylaxis After Craniotomy: A Decision Model Analysis. <i>World Neurosurgery</i> , 2017, 105, 906-912.e5.	1.3	11
63	Effects of the COVID-19 pandemic on stroke response times: a systematic review and meta-analysis. <i>Journal of NeuroInterventional Surgery</i> , 2022, 14, 642-649.	3.3	11
64	The impact of transsphenoidal surgery on neurocognitive function: A systematic review. <i>Journal of Clinical Neuroscience</i> , 2017, 42, 1-6.	1.5	10
65	Ageing is associated with increased TRB3, ER stress, and hepatic glucose production in the liver of rats. <i>Experimental Gerontology</i> , 2020, 139, 111021.	2.8	10
66	Expandable Versus Static Cages in Minimally Invasive Lumbar Interbody Fusion: A Systematic Review and Meta-Analysis. <i>World Neurosurgery</i> , 2021, 151, e607-e614.	1.3	10
67	Unplanned Readmissions to Acute Care From a Pediatric Postacute Care Hospital: Incidence, Clinical Reasons, and Predictive Factors. <i>Hospital Pediatrics</i> , 2015, 5, 134-140.	1.3	9
68	Antibacterial prophylaxis for gram-positive and gram-negative infections in cranial surgery: A meta-analysis. <i>Journal of Clinical Neuroscience</i> , 2017, 45, 24-32.	1.5	9
69	Minimally invasive versus open surgery for the correction of adult degenerative scoliosis: a systematic review. <i>Neurosurgical Review</i> , 2021, 44, 659-668.	2.4	9
70	Statins and Gliomas: A Systematic Review of the Preclinical Studies and Meta-Analysis of the Clinical Literature. <i>Drugs</i> , 2022, 82, 293-310.	10.9	9
71	Headache Resolution After Rathke Cleft Cyst Resection: A Meta-Analysis. <i>World Neurosurgery</i> , 2018, 111, e764-e772.	1.3	8
72	Quality of reporting and assessment of patient-reported health-related quality of life in patients with brain metastases: a systematic review. <i>Neuro-Oncology Practice</i> , 2018, 5, 214-222.	1.6	8

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73	Cannabis use and outcomes after aneurysmal subarachnoid hemorrhage: A nationwide retrospective cohort study. <i>Journal of Clinical Neuroscience</i> , 2020, 72, 98-101.	1.5	8
74	Single- versus Dual-Attending Surgeon Approach for Spine Deformity: A Systematic Review and Meta-Analysis. <i>Operative Neurosurgery</i> , 2021, 20, 233-241.	0.8	8
75	Complications and cosmetic outcomes of materials used in cranioplasty following decompressive craniectomy—a systematic review, pairwise meta-analysis, and network meta-analysis. <i>Acta Neurochirurgica</i> , 2022, 164, 3075-3090.	1.7	8
76	Excessive treadmill training enhances the insulin signaling pathway and glycogen deposition in mice hearts. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 1304-1317.	2.6	7
77	Neurosurgical resection for locally recurrent brain metastasis. <i>Neuro-Oncology</i> , 2021, 23, 2085-2094.	1.2	7
78	Long-term outcomes of lumbar microdiscectomy in the pediatric population: a large single-institution case series. <i>Journal of Neurosurgery: Pediatrics</i> , 2019, 24, 549-557.	1.3	7
79	Leptomeningeal disease in neurosurgical brain metastases patients: A systematic review and meta-analysis. <i>Neuro-Oncology Advances</i> , 2021, 3, vtab162.	0.7	7
80	Prospective study of breakfast frequency and timing and the risk of incident type 2 diabetes in community-dwelling older adults: the Cardiovascular Health Study. <i>American Journal of Clinical Nutrition</i> , 2022, 116, 325-334.	4.7	7
81	Prospective Study of Skipping Meals to Lose Weight as a Predictor of Incident Type 2 Diabetes With Potential Modification by Cardiometabolic Risk Factors: The Canadian 1995 Nova Scotia Health Survey. <i>Canadian Journal of Diabetes</i> , 2021, 45, 306-312.	0.8	6
82	Safety and efficacy of prothrombin complex concentrate (PCC) for anticoagulation reversal in patients undergoing urgent neurosurgical procedures: a systematic review and metaanalysis. <i>Neurosurgical Review</i> , 2021, 44, 1921-1931.	2.4	5
83	Mobile health and neurocognitive domains evaluation through smartphones: A meta-analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 212, 106484.	4.7	5
84	Surgery vs. Biopsy in the Treatment of Butterfly Glioblastoma: A Systematic Review and Meta-Analysis. <i>Cancers</i> , 2022, 14, 314.	3.7	5
85	Thromboembolism, Bleeding, and Mortality Incidence of Direct Oral Anticoagulants Versus Warfarin Postbariatric Surgery. <i>American Journal of Medicine</i> , 2021, 134, 1403-1412.e2.	1.5	4
86	A higher overall diet quality is inversely associated with the risk of chronic obstructive pulmonary disease (COPD) in men and women. <i>Evidence-Based Medicine</i> , 2016, 21, 36-36.	0.6	3
87	Breakfast Skipping and Type 2 Diabetes: Where Do We Stand?. <i>Journal of Nutrition</i> , 2019, 149, 1-3.	2.9	3
88	Adult spinal deformity surgery: a systematic review of venous thromboprophylaxis and incidence of venous thromboembolic events. <i>Neurosurgical Review</i> , 2020, 43, 923-930.	2.4	3
89	Gender Differences in Preoperative Opioid Use in Spine Surgery Patients: A Systematic Review and Meta-analysis. <i>Pain Medicine</i> , 2020, 21, 3292-3300.	1.9	3
90	Efficacy and safety of flexible versus rigid endoscopic third ventriculostomy in pediatric and adult populations: a systematic review and meta-analysis. <i>Neurosurgical Review</i> , 2022, 45, 199-216.	2.4	3

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91	Breakfast Eating and Incident Coronary Heart Disease in a Large Prospective Cohort of American women. <i>FASEB Journal</i> , 2015, 29, 906.3.	0.5	2
92	Seizure Outcomes After Interventional Treatment in Cerebral Arteriovenous Malformationâ€“Associated Epilepsy: A Systematic Review and Meta-Analysis. <i>World Neurosurgery</i> , 2022, 160, e9-e22.	1.3	2
93	Efficacy and Safety of Direct Oral Anticoagulants (DOACs) Versus Warfarin in Atrial Fibrillation Patients with Prior Stroke: a Systematic Review and Meta-analysis. <i>Cardiovascular Drugs and Therapy</i> , 2022, , 1.	2.6	2
94	Blood pressure and neuropsychological test performance in healthy postmenopausal women. <i>Maturitas</i> , 2016, 88, 25-31.	2.4	1
95	Isotemporal substitution model for physical activity and osteoarthritis outcomes. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 1571-1572.	1.3	1
96	Outcomes of intraparenchymal hemorrhage after direct oral anticoagulant or vitamin K antagonist therapy: A systematic review and meta-analysis. <i>Journal of Clinical Neuroscience</i> , 2019, 62, 188-194.	1.5	1
97	Commentary: Response to â€œSystematic review and meta-analysis of external ventricular drain placement accuracy and narrative review of guidance devicesâ€• <i>Journal of Clinical Neuroscience</i> , 2022, 106, 238-239.	1.5	1
98	Reply to G Livesey. <i>American Journal of Clinical Nutrition</i> , 2012, 95, 984-984.	4.7	0
99	HOLIT-13. PATIENT REPORTED OUTCOME MEASURES IN BRAIN METASTASES PATIENTS â€“ Aâ€“SYSTEMATIC REVIEW. <i>Neuro-Oncology</i> , 2017, 19, vi108-vi108.	1.2	0
100	2146. MALDI-TOF Mass Spectrometry Rapid Pathogen Identification and Outcomes of Patients with Bloodstream Infection: A Systematic Review and Meta-analysis. <i>Open Forum Infectious Diseases</i> , 2019, 6, S727-S727.	0.9	0
101	In Reply to the Letter to the Editor Regarding â€œThe Effectiveness of Antiepileptic Medications as Prophylaxis of Early Seizure in Patients with Traumatic Brain Injury Compared with Placebo or No Treatment: Aâ€“Systematic Review and Meta-Analysisâ€• <i>World Neurosurgery</i> , 2019, 131, 307.	1.3	0
102	Re: Prognosis of Neurological Improvement in Inpatient Acute Ischemic Stroke Survivors: A Propensity Score Matching Analysis. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2021, 30, 105813.	1.6	0
103	The effect of weight loss on hypothalamus structure and function in obese individuals: a systematic review and meta-analysis. <i>International Journal of Neuroscience</i> , 2024, 134, 75-87.	1.6	0