Eduardo FernÃ¡ndez-Jover

List of Publications by Year
in descending order

220 papers	5,992 citations	101543 36 h-index	98798 67 g-index
236 all docs	236 docs citations	236 times ranked	6842 citing authors

#	Article	IF	Citations
1	Restoring Natural Sensory Feedback in Real-Time Bidirectional Hand Prostheses. Science Translational Medicine, 2014, 6, 222ra19.	12.4	805
2	Long-Term Stimulation and Recording With a Penetrating Microelectrode Array in Cat Sciatic Nerve. IEEE Transactions on Biomedical Engineering, 2004, 51, 146-157.	4.2	265
3	Use of Fractal Theory in Neuroscience: Methods, Advantages, and Potential Problems. Methods, 2001, 24, 309-321.	3.8	156
4	Neurons and fractals: how reliable and useful are calculations of fractal dimensions?. Journal of Neuroscience Methods, 1998, 81, 9-18.	2.5	154
5	Shape perception via a high-channel-count neuroprosthesis in monkey visual cortex. Science, 2020, 370, 1191-1196.	12.6	146
6	Biocompatibility of intracortical microelectrodes: current status and future prospects. Frontiers in Neuroengineering, 2010, 3, 8.	4.8	132
7	Acute human brain responses to intracortical microelectrode arrays: challenges and future prospects. Frontiers in Neuroengineering, 2014, 7, 24.	4.8	124
8	Toward the development of a cortically based visual neuroprosthesis. Journal of Neural Engineering, 2009, 6, 035001.	3.5	122
9	Artificial intelligence within the interplay between natural and artificial computation: Advances in data science, trends and applications. Neurocomputing, 2020, 410, 237-270.	5.9	121
10	The Protein Kinase DYRK1A Regulates Caspase-9-Mediated Apoptosis during Retina Development. Developmental Cell, 2008, 15, 841-853.	7.0	108
11	Clinical applications of penetrating neural interfaces and Utah Electrode Array technologies. Journal of Neural Engineering, 2016, 13, 061003.	3.5	101
12	A technique to prevent dural adhesions to chronically implanted microelectrode arrays. Journal of Neuroscience Methods, 2000, 97, 93-101.	2.5	97
13	Development and characterization of a microfluidic model of the tumour microenvironment. Scientific Reports, 2016, 6, 36086.	3.3	95
14	Are there three types of horizontal cell in the human retina?. Journal of Comparative Neurology, 1994, 343, 370-386.	1.6	91
15	Visual percepts evoked with an intracortical 96-channel microelectrode array inserted in human occipital cortex. Journal of Clinical Investigation, 2021, 131, .	8.2	87
16	Wnt/Î²-Catenin Signaling Triggers Neuron Reprogramming and Regeneration in the Mouse Retina. Cell Reports, 2013, 4, 271-286.	6.4	84
17	High-resolution spatio-temporal mapping of visual pathways using multi-electrode arrays. Vision Research, 2001, 41, 1261-1275.	1.4	80
18	Mental tasks-based brainâ€"robot interface. Robotics and Autonomous Systems, 2010, 58, 1238-1245.	5.1	79

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19	Dextran and Protamine-Based Solid Lipid Nanoparticles as Potential Vectors for the Treatment of X-Linked Juvenile Retinoschisis. Human Gene Therapy, 2012, 23, 345-355.	2.7	77
20	ELECTRE TRI-nB: A new multiple criteria ordinal classification method. European Journal of Operational Research, 2017, 263, 214-224.	5.7	72
21	Organicâ€"Inorganic Nanospheres with Responsive Molecular Gates for Drug Storage and Release. Angewandte Chemie - International Edition, 2009, 48, 6247-6250.	13.8	67
22	A new approach to multi-criteria sorting based on fuzzy outranking relations: The THESEUS method. European Journal of Operational Research, 2011, 213, 405-413.	5.7	62
23	Increasing selective pressure towards the best compromise in evolutionary multiobjective optimization: The extended NOSGA method. Information Sciences, 2011, 181, 44-56.	6.9	61
24	Cationic Niosomes as Non-Viral Vehicles for Nucleic Acids: Challenges and Opportunities in Gene Delivery. Pharmaceutics, 2019, 11, 50.	4.5	59
25	Allergic Contact Dermatitis From Mercury Antiseptics and Derivatives: Study Protocol of Tolerance to Intramuscular Injections of Thimerosal. American Journal of Contact Dermatitis: Official Journal of the American Contact Dermatitis Society, 2002, 13, 3-9.	0.4	55
26	Easily made single-walled carbon nanotube surface microelectrodes for neuronal applications. Biosensors and Bioelectronics, 2009, 24, 1942-1948.	10.1	54
27	Retinal gene delivery enhancement by lycopene incorporation into cationic niosomes based on DOTMA and polysorbate 60. Journal of Controlled Release, 2017, 254, 55-64.	9.9	54
28	A Swine Model of Selective Geographic Atrophy of Outer Retinal Layers Mimicking Atrophic AMD: A Phase I Escalating Dose of Subretinal Sodium Iodate. , 2016, 57, 3974.		53
29	Development of visual Neuroprostheses: trends and challenges. Bioelectronic Medicine, 2018, 4, 12.	2.3	53
30	The Promise and Challenges of Developing miRNA-Based Therapeutics for Parkinsonâ€™s Disease. Cells, 2020, 9, 841.	4.1	51
31	Optical control of endogenous receptors and cellular excitability using targeted covalent photoswitches. Nature Communications, 2016, 7, 12221.	12.8	50
32	Multicriteria sorting using a valued indifference relation under a preference disaggregation paradigm. European Journal of Operational Research, 2009, 198, 602-609.	5.7	49
33	Population coding in spike trains of simultaneously recorded retinal ganglion cells. Brain Research, 2000, 887, 222-229.	2.2	47
34	Hearing colors: an example of brain plasticity. Frontiers in Systems Neuroscience, 2015, 9, 56.	2.5	46
35	Hybrid metaheuristic approach for handling many objectives and decisions on partial support in project portfolio optimisation. Information Sciences, 2015, 315, 102-122.	6.9	45
36	Multifunctional hybrid materials for combined photo and chemotherapy of cancer. Dalton Transactions, 2012, 41, 9286.	3.3	40

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37	A design framework to model retinas. BioSystems, 2007, 87, 156-163.	2.0	39
38	Non-viral vectors based on cationic niosomes and minicircle DNA technology enhance gene delivery efficiency for biomedical applications in retinal disorders. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 17, 308-318.	3.3	39
39	Gene delivery to the rat retina by non-viral vectors based on chloroquine-containing cationic niosomes. Journal of Controlled Release, 2019, 304, 181-190.	9.9	38
40	Neurolight: A Deep Learning Neural Interface for Cortical Visual Prostheses. International Journal of Neural Systems, 2020, 30, 2050045.	5.2	38
41	Stability of flexible thin-film metallization stimulation electrodes: analysis of explants after first-in-human study and improvement of in vivo performance. Journal of Neural Engineering, 2020, 17, 046006.	3.5	38
42	An interval extension of the outranking approach and its application to multiple-criteria ordinal classification. Omega, 2019, 84, 189-198.	5.9	37
43	EEG-Based Detection of Starting and Stopping During Gait Cycle. International Journal of Neural Systems, 2016, 26, 1650029.	5.2	36
44	Amino modified metal-organic frameworks as pH-responsive nanoplatforms for safe delivery of camptothecin. Journal of Colloid and Interface Science, 2019, 541, 163-174.	9.4	35
45	Niosome-Based Approach for In Situ Gene Delivery to Retina and Brain Cortex as Immune-Privileged Tissues. Pharmaceutics, 2020, 12, 198.	4.5	34
46	â€˜Who is the ideal candidate?â€™: decisions and issues relating to visual neuroprosthesis development, patient testing and neuroplasticity. Journal of Neural Engineering, 2007, 4, S130-S135.	3.5	33
47	Multicriteria sorting using a valued preference closeness relation. European Journal of Operational Research, 2008, 185, 673-686.	5.7	33
48	Kinematics of a robotic 3UPS1S spherical wrist designed for laparoscopic applications. International Journal of Medical Robotics and Computer Assisted Surgery, 2010, 6, 291-300.	2.3	33
49	Delivery of miRNA-Targeted Oligonucleotides in the Rat Striatum by Magnetofection with NeuromagÂ®. Molecules, 2018, 23, 1825.	3.8	32
50	Many-Objective Portfolio Optimization of Interdependent Projects with â€˜a prioriâ€™ Incorporation of Decision-Maker Preferences. Applied Mathematics and Information Sciences, 2014, 8, 1517-1531.	0.5	32
51	Irregular S-cone mosaics in felid retinas Spatial interaction with axonless horizontal cells, revealed by cross correlation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 580.	1.5	31
52	Incorporation of implicit decision-maker preferences in multi-objective evolutionary optimization using a multi-criteria classification method. Applied Soft Computing Journal, 2017, 50, 48-57.	7.2	31
53	MRI evidence of brain atrophy, white matter damage, and functional adaptive changes in patients with cervical spondylosis and prolonged spinal cord compression. European Radiology, 2020, 30, 357-369.	4.5	31
54	Non-viral vectors based on cationic niosomes as efficient gene delivery vehicles to central nervous system cells into the brain. International Journal of Pharmaceutics, 2018, 552, 48-55.	5.2	30

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55	An indirect elicitation method for the parameters of the ELECTRE TRI-nB model using genetic algorithms. Applied Soft Computing Journal, 2019, 77, 723-733.	7.2	30
56	Proton magnetic resonance spectroscopy (1H-MRS) reveals the presence of elevated myo-inositol in the occipital cortex of blind subjects. NeuroImage, 2009, 47, 1172-1176.	4.2	29
57	Translating image sequences into spike patterns for cortical neuro-stimulation. Neurocomputing, 2004, 58-60, 885-892.	5.9	28
58	DATA-MEAns: An open source tool for the classification and management of neural ensemble recordings. Journal of Neuroscience Methods, 2005, 148, 137-146.	2.5	28
59	Enduring high-efficiency in vivo transfection of neurons with non-viral magnetoparticles in the rat visual cortex for optogenetic applications. Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 835-843.	3.3	28
60	Polysorbate 20 non-ionic surfactant enhances retinal gene delivery efficiency of cationic niosomes after intravitreal and subretinal administration. International Journal of Pharmaceutics, 2018, 550, 388-397.	5.2	28
61	Optimization of Real-Time EEG Artifact Removal and Emotion Estimation for Human-Robot Interaction Applications. Frontiers in Computational Neuroscience, 2019, 13, 80.	2.1	26
62	An Interval-Based Approach for Evolutionary Multi-Objective Optimization of Project Portfolios. International Journal of Information Technology and Decision Making, 2019, 18, 1317-1358.	3.9	26
63	Core: A decision support system for regional competitiveness analysis based on multi-criteria sorting. Decision Support Systems, 2013, 54, 1417-1426.	5.9	25
64	System-Level Design of a 64-Channel Low Power Neural Spike Recording Sensor. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 420-433.	4.0	25
65	Randomized, double-blind, placebo-controled clinical trial of sublingual immunotherapy in natural rubber latex allergic patients. Trials, 2011, 12, 191.	1.6	24
66	Multimodal Interfaces to Improve Therapeutic Outcomes in Robot-Assisted Rehabilitation. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1152-1158.	2.9	24
67	Toward Long-Term Communication With the Brain in the Blind by Intracortical Stimulation: Challenges and Future Prospects. Frontiers in Neuroscience, 2020, 14, 681.	2.8	24
68	Affective Robot Story-Telling Human-Robot Interaction: Exploratory Real-Time Emotion Estimation Analysis Using Facial Expressions and Physiological Signals. IEEE Access, 2020, 8, 134051-134066.	4.2	24
69	Complexity and scaling properties of amacrine, ganglion, horizontal, and bipolar cells in the turtle retina. Journal of Comparative Neurology, 1994, 347, 397-408.	1.6	23
70	A neuroengineering suite of computational tools for visual prostheses. Neurocomputing, 2007, 70, 2817-2827.	5.9	23
71	Evolutionary multi-objective optimization for inferring outranking model's parameters under scarce reference information and effects of reinforced preference. Foundations of Computing and Decision Sciences, 2012, 37, 163-197.	1.2	23
72	Evaluation of agomelatine for the treatment of sleep problems in adults with autism spectrum disorder and co-morbid intellectual disability. Journal of Psychopharmacology, 2019, 33, 1395-1406.	4.0	23

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73	Interval-based extensions of two outranking methods for multi-criteria ordinal classification. Omega, 2020, 95, 102065.	5.9	23
74	A reliable method for Golgi staining of retina and brain slices. Journal of Neuroscience Methods, 1996, 66, 55-59.	2.5	22
75	Use of Eye Tracking as an Innovative Instructional Method in Surgical Human Anatomy. Journal of Surgical Education, 2017, 74, 668-673.	2.5	22
76	Pharmacogenetics and prediction of adverse events in prescription opioid use disorder patients. Basic and Clinical Pharmacology and Toxicology, 2019, 124, 439-448.	2.5	22
77	CORTIVIS Approach for an Intracortical Visual Prostheses. , 2017, , 191-201.		21
78	NEV2lkit: A NEW OPEN SOURCE TOOL FOR HANDLING NEURONAL EVENT FILES FROM MULTI-ELECTRODE RECORDINGS. International Journal of Neural Systems, 2014, 24, 1450009.	5.2	20
79	Identifying Suitable Brain Regions and Trial Size Segmentation for Positive/Negative Emotion Recognition. International Journal of Neural Systems, 2019, 29, 1850044.	5.2	20
80	Real-Time Multi-Modal Estimation of Dynamically Evoked Emotions Using EEG, Heart Rate and Galvanic Skin Response. International Journal of Neural Systems, 2020, 30, 2050013.	5.2	20
81	A Novel Formulation Based on 2,3-Di(tetradecyloxy)propan-1-amine Cationic Lipid Combined with Polysorbate 80 for Efficient Gene Delivery to the Retina. Pharmaceutical Research, 2014, 31, 1665-1675.	3.5	19
82	Non-viral vectors based on magnetoplexes, lipoplexes and polyplexes for VEGF gene delivery into central nervous system cells. International Journal of Pharmaceutics, 2017, 521, 130-140.	5.2	19
83	A metaheuristic optimization-based indirect elicitation of preference parameters for solving many-objective problems. International Journal of Computational Intelligence Systems, 2017, 10, 56.	2.7	19
84	Conditioned spikes: a simple and fast method to represent rates and temporal patterns in multielectrode recordings. Journal of Neuroscience Methods, 2004, 133, 135-141.	2.5	18
85	Distribution of immunoreactivity to protein kinase C in the turtle retina. Brain Research, 1990, 532, 278-287.	2.2	17
86	Dendrites of rod dominant ON-bipolar cells are coupled by gap junctions in carp retina. Neuroscience Letters, 1993, 162, 34-38.	2.1	17
87	Allergy to <i>Dermatophagoides</i> in a Group of Spanish Gypsies: Genetic Restrictions. International Archives of Allergy and Immunology, 2001, 125, 297-306.	2.1	17
88	Improving the Response of Accelerometers for Automotive Applications by Using LMS Adaptive Filters. Sensors, 2010, 10, 313-329.	3.8	17
89	Classification method for BCIs based on the correlation of EEG maps. Neurocomputing, 2013, 114, 98-106.	5.9	17
90	A retinomorphic architecture based on discrete-time cellular neural networks using reconfigurable computing. Neurocomputing, 2008, 71, 766-775.	5.9	16

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91	P300-Based Brain-Computer Interface for Internet Browsing. Advances in Intelligent and Soft Computing, 2010, , 615-622.	0.2	16
92	Transfer of brachioradialis motor branch to the anterior interosseous nerve in C8â€“T1 brachial plexus palsy. An anatomic study. Microsurgery, 2013, 33, 297-300.	1.3	16
93	Automatic Tuning of a Retina Model for a Cortical Visual Neuroprosthesis Using a Multi-Objective Optimization Genetic Algorithm. International Journal of Neural Systems, 2016, 26, 1650021.	5.2	16
94	Engineered contrast agents in a single structure for T_1â€“T_2 dual magnetic resonance imaging. Nanoscale, 2018, 10, 6349-6360.	5.6	16
95	Using evolutionary computation to infer the decision makerâ€™s preference model in presence of imperfect knowledge: A case study in portfolio optimization. Swarm and Evolutionary Computation, 2020, 54, 100648.	8.1	16
96	Interface based on electrooculography for velocity control of a robot arm. Applied Bionics and Biomechanics, 2010, 7, 199-207.	1.1	15
97	The S1P1 receptor-selective agonist CYM-5442 protects retinal ganglion cells in endothelin-1 induced retinal ganglion cell loss. Experimental Eye Research, 2017, 164, 37-45.	2.6	15
98	Synchronization of Slow Cortical Rhythms During Motor Imagery-Based Brainâ€“Machine Interface Control. International Journal of Neural Systems, 2019, 29, 1850045.	5.2	15
99	Interface Based on Electrooculography for Velocity Control of a Robot Arm. Applied Bionics and Biomechanics, 2010, 7, 199-207.	1.1	14
100	RetinaStudio: A bioinspired framework to encode visual information. Neurocomputing, 2013, 114, 45-53.	5.9	14
101	Gd-Si Oxide Nanoparticles as Contrast Agents in Magnetic Resonance Imaging. Nanomaterials, 2016, 6, 109.	4.1	14
102	Handling the Multiplicity of Solutions in a Moea Based PDA-THESEUS Framework for Multi-Criteria Sorting. Foundations of Computing and Decision Sciences, 2016, 41, 213-235.	1.2	14
103	Brain and Body Emotional Responses: Multimodal Approximation for Valence Classification. Sensors, 2020, 20, 313.	3.8	14
104	Two types of mitochondria are evidenced by protein kinase C immunoreactivity in the MÃ¼ller cells of the carp retina. Neuroscience Letters, 1995, 183, 202-205.	2.1	13
105	Pharmacokinetics, biodistribution and dosimetry of 99mTc-labeled anti-human epidermal growth factor receptor humanized monoclonal antibody R3 in rats. Nuclear Medicine and Biology, 1998, 25, 17-23.	0.6	13
106	Net Efficacy Adjusted for Risk (NEAR): A Simple Procedure for Measuring Risk:Benefit Balance. PLoS ONE, 2008, 3, e3580.	2.5	13
107	A low-cost multichannel wireless neural stimulation system for freely roaming animals. Journal of Neural Engineering, 2013, 10, 066010.	3.5	13
108	A 3D Convolutional Neural Network to Model Retinal Ganglion Cellâ€™s Responses to Light Patterns in Mice. International Journal of Neural Systems, 2018, 28, 1850043.	5.2	13

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109	Fixed drug eruption caused by iodinated contrast media. Contact Dermatitis, 2011, 65, 43-44.	1.4	12
110	Gene transfer to rat cerebral cortex mediated by polysorbate 80 and poloxamer 188 nonionic surfactant vesicles. Drug Design, Development and Therapy, 2018, Volume 12, 3937-3949.	4.3	12
111	An Atypical Presentation of Visual Hallucinatory Experiences Following Prolonged Blindness*. Neurocase, 2006, 12, 212-215.	0.6	11
112	Hybrid evolutionary multi-objective optimisation using outranking-based ordinal classification methods. Swarm and Evolutionary Computation, 2020, 54, 100652.	8.1	11
113	Development of a Prodrug of Camptothecin for Enhanced Treatment of Glioblastoma Multiforme. Molecular Pharmaceutics, 2021, 18, 1558-1572.	4.6	11
114	Nanodiamond Integration into Niosomes as an Emerging and Efficient Gene Therapy Nanoplatform for Central Nervous System Diseases. ACS Applied Materials & Interfaces, 2022, 14, 13665-13677.	8.0	11
115	Morphometrical analysis of dendritic arborization in axotomized retinal ganglion cells. European Journal of Neuroscience, 2003, 18, 1103-1109.	2.6	10
116	Robotic assessment of the influence of age on upper-limb sensorimotor function. Clinical Interventions in Aging, 2013, 8, 879.	2.9	10
117	Gdâ€"Si oxide mesoporous nanoparticles with pre-formed morphology prepared from a Prussian blue analogue template. Dalton Transactions, 2015, 44, 14034-14041.	3.3	10
118	Cortical Asymmetries and Connectivity Patterns in the Valence Dimension of the Emotional Brain. International Journal of Neural Systems, 2020, 30, 2050021.	5.2	10
119	Transplantation of Human Induced Pluripotent Stem Cell-Derived Retinal Pigment Epithelium in a Swine Model of Geographic Atrophy. International Journal of Molecular Sciences, 2021, 22, 10497.	4.1	10
120	A method of combined single-cell electrophysiology and electroporation. Journal of Neuroscience Methods, 2007, 160, 69-74.	2.5	9
121	Brain Angiogenesis Induced by Nonviral Gene Therapy with Potential Therapeutic Benefits for Central Nervous System Diseases. Molecular Pharmaceutics, 2020, 17, 1848-1858.	4.6	9
122	Visual Disfunction due to the Selective Effect of Glutamate Agonists on Retinal Cells. International Journal of Molecular Sciences, 2021, 22, 6245.	4.1	9
123	Sphingolipid extracts enhance gene delivery of cationic lipid vesicles into retina and brain. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 169, 103-112.	4.3	9
124	Axon types classified by morphometric and multivariate analysis in the rat optic nerve. Brain Research, 1992, 585, 431-434.	2.2	8
125	Brain-Robot Interface for Controlling a Remote Robot Arm. Lecture Notes in Computer Science, 2009, , 353-361.	1.3	8
126	LDA-based classifiers for a mental tasks-based Brain-Computer Interface. , 2010, , .		8

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127	Pharmacokinetic study of Growth Hormone-Releasing Peptide 6 (GHRP-6) in nine male healthy volunteers. European Journal of Pharmaceutical Sciences, 2013, 48, 40-46.	4.0	8
128	On the Automatic Tuning of a Retina Model by Using a Multi-objective Optimization Genetic Algorithm. Lecture Notes in Computer Science, 2015, , 108-118.	1.3	8
129	A Chronic Ocular-Hypertensive Rat Model induced by Injection of the Sclerosant Agent Polidocanol in the Aqueous Humor Outflow Pathway. International Journal of Molecular Sciences, 2019, 20, 3209.	4.1	8
130	The Effect of Breath Pacing on Task Switching and Working Memory. International Journal of Neural Systems, 2020, 30, 2050028.	5.2	8
131	Anti-Obesity Sodium Tungstate Treatment Triggers Axonal and Glial Plasticity in Hypothalamic Feeding Centers. PLoS ONE, 2012, 7, e39087.	2.5	8
132	Diode Laser-Induced Mitosis in the Rabbit Retinal Pigment Epithelium. Ophthalmic Surgery Lasers and Imaging Retina, 2007, 38, 484-490.	0.7	8
133	Study of the contrast processing in the early visual system using a neuromorphic retinal architecture. Neurocomputing, 2009, 72, 928-935.	5.9	7
134	A clientâ€"server architecture for remotely controlling a robot using a closed-loop system with a biological neuroprocessor. Robotics and Autonomous Systems, 2010, 58, 1223-1230.	5.1	7
135	Using EEG Signals to Detect the Intention of Walking Initiation and Stop. Lecture Notes in Computer Science, 2015, , 278-287.	1.3	7
136	Application of electroencephalographic techniques to the study of visual impact of renewable energies. Journal of Environmental Management, 2017, 200, 484-489.	7.8	7
137	Characterization of the Effectiveness of Several Outranking-Based Multi-Criteria Sorting Methods. International Journal of Information Technology and Decision Making, 2018, 17, 1047-1084.	3.9	7
138	Biotolerability of Intracortical Microelectrodes. Advanced Biology, 2018, 2, 1700115.	3.0	7
139	Robustness Analysis of an Outranking Model Parametersâ€™ Elicitation Method in the Presence of Noisy Examples. Mathematical Problems in Engineering, 2018, 2018, 1-10.	1.1	7
140	Solving group multi-objective optimization problems by optimizing consensus through multi-criteria ordinal classification. European Journal of Operational Research, 2022, 297, 1014-1029.	5.7	7
141	Use of Eye-Tracking Technology by Medical Students Taking the Objective Structured Clinical Examination: Descriptive Study. Journal of Medical Internet Research, 2020, 22, e17719.	4.3	7
142	Visual experience during postnatal development determines the size of optic nerve axons. NeuroReport, 1993, 5, 365.	1.2	6
143	The neural concert of vision. Neurocomputing, 2009, 72, 814-819.	5.9	6
144	V-Proportion: A method based on the Voronoi diagram to study spatial relations in neuronal mosaics of the retina. Neurocomputing, 2010, 74, 418-427.	5.9	6

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145	Supervised and Dynamic Neuro-Fuzzy Systems to Classify Physiological Responses in Robot-Assisted Neurorehabilitation. PLoS ONE, 2015, 10, e0127777.	2.5	6
146	Delta-Theta Intertrial Phase Coherence Increases During Task Switching in a BCI Paradigm. Lecture Notes in Computer Science, 2017, , 96-108.	1.3	6
147	Movement-Related EEG Oscillations of Contralesional Hemisphere Discloses Compensation Mechanisms of Severely Affected Motor Chronic Stroke Patients. International Journal of Neural Systems, 2021, 31, 2150053.	5.2	6
148	Hybridisation of Swarm Intelligence Algorithms with Multi-Criteria Ordinal Classification: A Strategy to Address Many-Objective Optimisation. Mathematics, 2022, 10, 322.	2.2	6
149	A Computational Tool to Test Neuromorphic Encoding Schemes for Visual Neuroprostheses. Lecture Notes in Computer Science, 2005, , 510-517.	1.3	5
150	Improving the Response of Accelerometers for Automotive Applications by Using LMS Adaptive Filters: Part II. Sensors, 2010, 10, 952-962.	3.8	5
151	Towards the Reconstruction of Moving Images by Populations of Retinal Ganglion Cells. Lecture Notes in Computer Science, 2015, , 220-227.	1.3	5
152	Analysis of the effectiveness of the theseus multi-criteria sorting method: theoretical remarks and experimental evidence. Top, 2017, 25, 314-339.	1.6	5
153	Toward an Improvement of the Analysis of Neural Coding. Frontiers in Neuroinformatics, 2017, 11, 77.	2.5	5
154	A Method for Integration of Preferences to a Multi-Objective Evolutionary Algorithm Using Ordinal Multi-Criteria Classification. Mathematical and Computational Applications, 2021, 26, 27.	1.3	5
155	Preference incorporation in MOEA/D using an outranking approach with imprecise model parameters. Swarm and Evolutionary Computation, 2022, 72, 101097.	8.1	5
156	Visual Prostheses. , 2011, , 821-834.		4
157	Reprint of: V-Proportion: A method based on the Voronoi diagram to study spatial relations in neuronal mosaics of the retina. Neurocomputing, 2011, 74, 1165-1174.	5.9	4
158	Metaheuristic Optimisation Algorithms for Tuning a Bioinspired Retinal Model. Sensors, 2019, 19, 4834.	3.8	4
159	Reconfigurable Retina-Like Preprocessing Platform for Cortical Visual Neuroprostheses. , 0, , 267-279.		3
160	Searching for semantics in the retinal code. Neurocomputing, 2009, 72, 806-813.	5.9	3
161	When Playing Is a Problem: An Atypical Case of Alien Hand Syndrome in a Professional Pianist. Frontiers in Human Neuroscience, 2017, 11, 198.	2.0	3
162	Technology, Gender and COVID-19. Analysis of Perceived Health in Adults and Older People. Lecture Notes in Computer Science, 2021, , 363-379.	1.3	3

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163	Modeling the Effect of Fixational Eye Movements in Natural Scenes. Lecture Notes in Computer Science, 2013, , 332-341.	1.3	3
164	Machine Learning Method for Functional Assessment of Retinal Models. , 2021, 2021, 4293-4296.		3
165	Handling imperfect information in multiple criteria decision-making through a comprehensive interval outranking approach. Socio-Economic Planning Sciences, 2022, 82, 101254.	5.0	3
166	Time stability and connectivity analysis with an intracortical 96-channel microelectrode array inserted in human visual cortex. Journal of Neural Engineering, 2022, 19, 045001.	3.5	3
167	The classification of spatial, chromatic, and intensity features of simple visual stimuli by a network of retinal ganglion cells. Lecture Notes in Computer Science, 1997, , 44-53.	1.3	2
168	Artificial Neural Networks and Retinal Ganglion Cell Responses. , 0, , .		2
169	Implementation of a CNN-based retinomorphic model on a high performance reconfigurable computer. Neurocomputing, 2011, 74, 1290-1297.	5.9	2
170	Robot-assisted rehabilitation treatment of a 65-year old woman with alien hand syndrome. , 2014, , .		2
171	A 330&#x03BC;W, 64-channel neural recording sensor with embedded spike feature extraction and auto-calibration. , 2014, , .		2
172	Towards a Deep Learning Model of Retina: Retinal Neural Encoding of Color Flash Patterns. Lecture Notes in Computer Science, 2017, , 464-472.	1.3	2
173	Setting the Parameters for an Accurate EEG (Electroencephalography)-Based Emotion Recognition System. Lecture Notes in Computer Science, 2017, , 265-273.	1.3	2
174	Intra-ocular lens optical changes resulting from the loading of dexamethasone. Biomedical Optics Express, 2017, 8, 4621.	2.9	2
175	Evaluation and Optimization of Poly-d-Lysine as a Non-Natural Cationic Polypeptide for Gene Transfer in Neuroblastoma Cells. Nanomaterials, 2021, 11, 1756.	4.1	2
176	Cortical Plasticity and Reorganization in Severe Vision Loss. , 2011, , 77-92.		2
177	Training Study Approaches for a SVM-Based BCI: Adaptation to the Model vs Adaptation to the User. Lecture Notes in Computer Science, 2013, , 131-140.	1.3	2
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