Andras Lorincz

List of Publications by Year in descending order

173 papers	2,036 citations	331538 21 h-index	345118 36 g-index
184 all docs	184 docs citations	184 times ranked	1561 citing authors

#	Article	IF	Citations
1	Tracking Highly Similar Rat Instances under Heavy Occlusions: An Unsupervised Deep Generative Pipeline. Journal of Imaging, 2022, 8, 109.	1.7	1
2	AI Technologies for Machine Supervision and Help in a Rehabilitation Scenario. Multimodal Technologies and Interaction, 2022, 6, 48.	1.7	5
3	Structural Extensions of Basis Pursuit: Guarantees on Adversarial Robustness. , 2022, , .		0
4	Soldering Data Classification with a Deep Clustering Approach: Case Study of an Academic-Industrial Cooperation. Applied Sciences (Switzerland), 2022, 12, 6927.	1.3	0
5	RATS: Robust Automated Tracking andÂSegmentation of Similar Instances. Lecture Notes in Computer Science, 2021, , 507-518.	1.0	3
6	Speech De-identification with Deep Neural Networks. Acta Cybernetica, 2021, 25, 257-269.	0.5	0
7	The Autism Palette: Combinations of Impairments Explain the Heterogeneity in ASD. Frontiers in Psychiatry, 2020, 11, 503462.	1.3	5
8	Multi-person Absolute 3D Human Pose Estimation with Weak Depth Supervision. Lecture Notes in Computer Science, 2020, , 258-270.	1.0	9
9	Multi Object Tracking for Similar Instances: A Hybrid Architecture. Lecture Notes in Computer Science, 2020, , 436-447.	1.0	3
10	Sparsified and Twisted Residual Autoencoders. Advances in Intelligent Systems and Computing, 2020, , 321-332.	0.5	0
11	Group k-Sparse Temporal Convolutional Neural Networks: Unsupervised Pretraining for Video Classification. , 2019, , .		2
12	3D human pose estimation with siamese equivariant embedding. Neurocomputing, 2019, 339, 194-201.	3.5	24
13	Overview of the CPS for Smart Factories Project: Deep Learning, Knowledge Acquisition, Anomaly Detection and Intelligent User Interfaces. Springer Series in Wireless Technology, 2017, , 487-504.	1.1	24
14	Semi-Supervised Learning of Cartesian Factors: A Top-Down Model of the Entorhinal Hippocampal Complex. Frontiers in Psychology, 2017, 8, 215.	1.1	5
15	Deep Learning for Facial Action Unit Detection Under Large Head Poses. Lecture Notes in Computer Science, 2016, , 359-371.	1.0	8
16	Cartesian Abstraction Can Yield â€˜Cognitive Mapsâ€™. Procedia Computer Science, 2016, 88, 259-271.	1.2	2
17	Maintain and Improve Mental Health by Smart Virtual Reality Serious Games. Communications in Computer and Information Science, 2016, , 220-229.	0.4	4
18	Personalization of Gaze Direction Estimation with Deep Learning. Lecture Notes in Computer Science, 2016, , 200-207.	1.0	4

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19	Model Based Augmentation and Testing of an Annotated Hand Pose Dataset. Lecture Notes in Computer Science, 2016, , 17-29.	1.0	3
20	Columnar Machine: Fast estimation of structured sparse codes. Biologically Inspired Cognitive Architectures, 2016, 15, 19-33.	0.9	2
21	Estimating Cartesian Compression via Deep Learning. Lecture Notes in Computer Science, 2016, , 294-304.	1.0	3
22	Revolution in Health and Wellbeing. KI - Kunstliche Intelligenz, 2015, 29, 219-222.	2.2	1
23	Iterative Calibration Method for Microscopic Road Traffic Simulators. Periodica Polytechnica Transportation Engineering, 2015, , .	0.7	2
24	Cost and risk sensitive decision making and control for highway overtaking maneuver. , 2015, , .		3
25	The Cyber-Physical System Approach Towards Artificial General Intelligence: The Problem of Verification. Lecture Notes in Computer Science, 2015, , 373-383.	1.0	4
26	LabelMovie: Semi-supervised machine annotation tool with quality assurance and crowd-sourcing options for videos. , 2014, , .		10
27	The Medical Cyber-physical Systems Activity at EIT: A Look under the Hood. , 2014, , .		8
28	On-body multi-input indoor localization for dynamic emergency scenarios: fusion of magnetic tracking and optical character recognition with mixed-reality display. , 2014, , .		9
29	Spatio-temporal Event Classification Using Time-Series Kernel Based Structured Sparsity. Lecture Notes in Computer Science, 2014, 2014, 135-150.	1.0	19
30	Emotional Expression Classification Using Time-Series Kernels. , 2013, , .		34
31	Determining Unintelligible Words from their Textual Contexts. Procedia, Social and Behavioral Sciences, 2013, 73, 101-108.	0.5	2
32	Efficient Sparse Coding in Early Sensory Processing: Lessons from Signal Recovery. PLoS Computational Biology, 2012, 8, e1002372.	1.5	14
33	3D shape estimation in video sequences provides high precision evaluation of facial expressions. Image and Vision Computing, 2012, 30, 785-795.	2.7	39
34	The FuturICT education accelerator. European Physical Journal: Special Topics, 2012, 214, 215-243.	1.2	11
35	Distributed high dimensional information theoretical image registration via random projections. , 2012, 22, 894-902.		0
36	Sparse and silent coding in neural circuits. Neurocomputing, 2012, 79, 115-124.	3.5	4

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37	Improving seizure recognition by visual reinforcement. Neurology Psychiatry and Brain Research, 2012, 18, 1-7.	2.0	3
38	Separation theorem for independent subspace analysis and its consequences. Pattern Recognition, 2012, 45, 1782-1791.	5.1	31
39	Innovative Assessment Technologies in Educational Games Designed for Young Students. , 2012, , 235-254.		21
40	Collaborative Filtering via Group-Structured Dictionary Learning. Lecture Notes in Computer Science, 2012, , 247-254.	1.0	4
41	High quality facial expression recognition in video streams using shape related information only. , 2011, , .		24
42	Online group-structured dictionary learning. , 2011, , .		27
43	Auto-regressive independent process analysis without combinatorial efforts. Pattern Analysis and Applications, 2010, 13, 1-13.	3.1	5
44	Multiagent Reinforcement Learning Model for the Emergence of Common Property and Transhumance in Sub-Saharan Africa. Lecture Notes in Computer Science, 2010, , 91-106.	1.0	0
45	Autoregressive model of the hippocampal representation of events. , 2009, , .		2
46	Controlled Complete ARMA Independent Process Analysis. , 2009, , .		2
47	DYNAMICALLY FORMED CLUSTERS OF AGENTS IN ECO-GRAMMAR SYSTEMS. International Journal of Foundations of Computer Science, 2009, 20, 293-311.	0.8	3
48	Optimistic initialization and greediness lead to polynomial time learning in factored MDPs. , 2009, , .		11
49	Here and now: How time segments may become events in the hippocampus. Neural Networks, 2009, 22, 738-747.	3.3	9
50	Perception based method for the investigation of audiovisual integration of speech. Neuroscience Letters, 2009, 465, 204-209.	1.0	13
51	Hebbian Constraint on the Resolution of the Homunculus Fallacy Leads to a Network that Searches for Hidden Cause-Effect Relationships. , 2009, , .		2
52	Complex Independent Process Analysis. Acta Cybernetica, 2009, 19, 177-190.	0.5	3
53	REPRESENTATION THEORY MEETS ANATOMY: FACTOR LEARNING IN THE HIPPOCAMPAL FORMATION. , 2009, , .		1
54	Editorial. Theory in Biosciences, 2008, 127, 67-68.	0.6	0

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55	Spike-based cross-entropy method for reconstruction. Neurocomputing, 2008, 71, 3635-3639.	3.5	13
56	The many faces of optimism. , 2008, , .		26
57	Learning and Representation: From Compressive Sampling to the â€˜Symbol Learning Problemâ€™. Bolyai Society Mathematical Studies, 2008, , 445-488.	0.3	1
58	Novel anti-cholesterol monoclonal immunoglobulin G antibodies as probes and potential modulators of membrane raft-dependent immune functions. Journal of Lipid Research, 2007, 48, 19-29.	2.0	30
59	Language development among co-learning agents. , 2007, , .		1
60	Efficiency of goal-oriented communicating agents in different graph topologies: A study with Internet crawlers. Physica A: Statistical Mechanics and Its Applications, 2007, 378, 127-134.	1.2	2
61	Simple conditions for forming triangular grids. Neurocomputing, 2007, 70, 1741-1747.	3.5	2
62	Neurally plausible, non-combinatorial iterative independent process analysis. Neurocomputing, 2007, 70, 1569-1573.	3.5	4
63	Independent Process Analysis Without a Priori Dimensional Information. , 2007, , 252-259.		8
64	Post Nonlinear Independent Subspace Analysis. Lecture Notes in Computer Science, 2007, , 677-686.	1.0	5
65	Undercomplete Blind Subspace Deconvolution Via Linear Prediction. Lecture Notes in Computer Science, 2007, , 740-747.	1.0	9
66	Co-learning and the Development of Communication. Lecture Notes in Computer Science, 2007, , 827-837.	1.0	1
67	Is Selection Optimal for Scale-Free Small Worlds?. Complexus, 2006, 3, 158-168.	0.7	2
68	A framework for anonymous but accountable self-organizing communities. Information and Software Technology, 2006, 48, 726-744.	3.0	10
69	PIRANHA: Policy iteration for recurrent artificial neural networks with hidden activities. Neurocomputing, 2006, 70, 577-591.	3.5	0
70	Independent component analysis forms place cells in realistic robot simulations. Neurocomputing, 2006, 69, 1249-1252.	3.5	3
71	Non-combinatorial estimation of independent autoregressive sources. Neurocomputing, 2006, 69, 2416-2419.	3.5	5
72	Learning Tetris Using the Noisy Cross-Entropy Method. Neural Computation, 2006, 18, 2936-2941.	1.3	117

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73	Critical Echo State Networks. Lecture Notes in Computer Science, 2006, , 658-667.	1.0	15
74	Cross-Entropy Optimization for Independent Process Analysis. Lecture Notes in Computer Science, 2006, , 909-916.	1.0	17
75	Computer study of the evolution of â€˜news foragers' on the Internet. Studies in Computational Intelligence, 2006, , 203-219.	0.7	4
76	Neural Kalman filter. Neurocomputing, 2005, 65-66, 349-355.	3.5	17
77	Attentional filtering in neocortical areas: a top-down model. Neurocomputing, 2005, 65-66, 817-823.	3.5	1
78	ADAPTIVE HIGHLIGHTING OF LINKS TO ASSIST SURFING ON THE INTERNET. International Journal of Information Technology and Decision Making, 2005, 04, 117-139.	2.3	6
79	Selection in Scale-Free Small World. Lecture Notes in Computer Science, 2005, , 579-582.	1.0	2
80	Independent Subspace Analysis on Innovations. Lecture Notes in Computer Science, 2005, , 698-706.	1.0	6
81	Independent subspace analysis using geodesic spanning trees. , 2005, , .		14
82	Corpus-Based Neural Network Method for Explaining Unknown Words by WordNet Senses. Lecture Notes in Computer Science, 2005, , 470-477.	1.0	0
83	Independent Subspace Analysis Using k-Nearest Neighborhood Distances. Lecture Notes in Computer Science, 2005, , 163-168.	1.0	9
84	Kalman Filter Control Embedded into the Reinforcement Learning Framework. Neural Computation, 2004, 16, 491-499.	1.3	12
85	Competitive spiking and indirect entropy minimization of rate code: Efficient search for hidden components. Journal of Physiology (Paris), 2004, 98, 407-416.	2.1	0
86	Improving recognition accuracy on structured documents by learning structural patterns. Pattern Analysis and Applications, 2004, 7, 66-76.	3.1	1
87	Robust hierarchical image representation using non-negative matrix factorisation with sparse code shrinkage preprocessing. Pattern Analysis and Applications, 2003, 6, 194-200.	3.1	3
88	Event-learning and robust policy heuristics. Cognitive Systems Research, 2003, 4, 319-337.	1.9	7
89	Cost Component Analysis. International Journal of Neural Systems, 2003, 13, 183-192.	3.2	1
90	Value prediction in hls allocation problems using intellectual properties. Applied Artificial Intelligence, 2002, 16, 117-157.	2.0	1

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91	INTELLIGENT HIGH-PERFORMANCE CRAWLERS USED TO REVEAL TOPIC-SPECIFIC STRUCTURE OF THE WWW. International Journal of Foundations of Computer Science, 2002, 13, 477-495.	0.8	10
92	Categories, prototypes and memory systems in Alzheimer's disease. Trends in Cognitive Sciences, 2002, 6, 132-136.	4.0	8
93	Fast adapting value estimation-based hybrid architecture for searching the world-wide web. Applied Soft Computing Journal, 2002, 2, 11-23.	4.1	14
94	Ockham's Razor at Work: Modeling of the ``Homunculus''. Brain and Mind, 2002, 3, 187-220.	0.6	2
95	The mystery of structure and function of sensory processing areas of the neocortex: a resolution. Journal of Computational Neuroscience, 2002, 13, 187-205.	0.6	12
96	Independent component analysis of temporal sequences subject to constraints by lateral geniculate nucleus inputs yields all the three major cell types of the primary visual cortex. Journal of Computational Neuroscience, 2001, 11, 241-248.	0.6	7
97	Independent component analysis of temporal sequences forms place cells. Neurocomputing, 2001, 38-40, 769-774.	3.5	1
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99	OCKHAM'S RAZOR MODELING OF THE MATRISOME CHANNELS OF THE BASAL GANGLIA THALAMOCORTICAL LOOPS. International Journal of Neural Systems, 2001, 11, 125-143.	3.2	4
100	Inferior Temporal Neurons Show Greater Sensitivity to Nonaccidental than to Metric Shape Differences. Journal of Cognitive Neuroscience, 2001, 13, 444-453.	1.1	87
101	Physiological patterns in the hippocampo-entorhinal cortex system. Hippocampus, 2000, 10, 457-465.	0.9	181
102	Two‐Phase Computational Model Training Long‐Term Memories in the Entorhinal‐Hippocampal Region. Annals of the New York Academy of Sciences, 2000, 911, 83-111.	1.8	93
103	10.1162/153244303768966148. Applied Physics Letters, 2000, 1, .	1.5	11
104	Parallel and robust skeletonization built on self-organizing elements. Neural Networks, 1999, 12, 163-173.	3.3	5
105	Winner-Take-All Network Utilising Pseudoinverse Reconstruction Subnets Demonstrates Robustness on the Handprinted Character Recognition Problem. Neural Computing and Applications, 1999, 8, 163-176.	3.2	1
106	Module-Based Reinforcement Learning: Experiments with a Real Robot. Machine Learning, 1998, 31, 55-85.	3.4	29
107	Module-Based Reinforcement Learning: Experiments with a Real Robot. Autonomous Robots, 1998, 5, 273-295.	3.2	6
108	An integrated architecture for motion-control and path-planning. Journal of Field Robotics, 1998, 15, 1-15.	0.7	8

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109	Forming independent components via temporal locking of reconstruction architectures: a functional model of the hippocampus. Biological Cybernetics, 1998, 79, 263-275.	0.6	14
110	Modular Reinforcement Learning: An Application to a Real Robot Task. Lecture Notes in Computer Science, 1998, , 29-45.	1.0	7
111	Basal Ganglia Perform Differencing Between â€˜Desiredâ€™ and â€˜Experiencedâ€™ Parameters. , 1998, , 77-82.		0
112	Self-learning optical system based on a genetic-algorithm driven spatial light modulator. , 1998, , .		0
113	Static and Dynamic State Feedback Control Model of Basal Ganglia-Thalamocortical Loops. International Journal of Neural Systems, 1997, 08, 339-357.	3.2	10
114	APPROXIMATE INVERSE-DYNAMICS BASED ROBUST CONTROL USING STATIC AND DYNAMIC FEEDBACK. World Scientific Series in Robotics and Intelligent Systems, 1997, , 151-179.	0.1	3
115	Hippocampal formation trains independent components via forcing input reconstruction. Lecture Notes in Computer Science, 1997, , 163-168.	1.0	1
116	Neurocontroller using dynamic state feedback for compensatory control. Neural Networks, 1997, 10, 1691-1708.	3.3	14
117	Robust control using inverse dynamics neurocontrollers. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 1669-1676.	0.6	0
118	The effect of quantum dispersion on laboratory feedback optimal control. Journal of Modern Optics, 1997, 44, 2049-2052.	0.6	1
119	Approximate geometry representations and sensory fusion. Neurocomputing, 1996, 12, 267-287.	3.5	9
120	Self-organized formation of a set of scaling filters and their neighbouring connections. Biological Cybernetics, 1996, 75, 37-47.	0.6	1
121	Feasibility of using photophoresis to create a concentration gradient of solvated molecules. Journal of Chemical Physics, 1996, 105, 9515-9524.	1.2	22
122	SELF-ORGANIZING MULTI-RESOLUTION GRID FOR MOTION PLANNING AND CONTROL. International Journal of Neural Systems, 1996, 07, 757-776.	3.2	8
123	Stabilizing competitive learning during on-line training with an anti-Hebbian weight modulation. Lecture Notes in Computer Science, 1996, , 697-702.	1.0	0
124	Inverse dynamics controllers for robust control: Consequences for neurocontrollers. Lecture Notes in Computer Science, 1996, , 791-796.	1.0	1
125	Genetic algorithm with alphabet optimization. Biological Cybernetics, 1995, 73, 61-68.	0.6	3
126	Identification of born-oppenheimer potential energy surfaces of diatomic molecules from optimized chirped pulses. Chemical Physics, 1995, 201, 95-105.	0.9	6

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127	Possibility of detecting Davydov solitons using transient reflectivity measurements. Journal of Applied Physics, 1994, 75, 1861-1868.	1.1	1
128	Topology Learning Solved by Extended Objects: A Neural Network Model. Neural Computation, 1994, 6, 441-458.	1.3	15
129	The effect of control field and measurement imprecision on laboratory feedback control of quantum systems. Journal of Chemical Physics, 1994, 101, 3715-3722.	1.2	34
130	Locking a molecular bond: A case study of CsI. Physical Review A, 1994, 50, 2540-2547.	1.0	18
131	Chirped pulse control of CsI fragmentation: an experimental possibility. Chemical Physics, 1994, 188, 87-97.	0.9	25
132	Photoacoustic characterization of different food samples. Zeitschrift Fur Lebensmittel-Untersuchung Und -Forschung, 1994, 199, 59-63.	0.7	9
133	Optimization of harmonic oscillator wavefunction squeezing in pulsed electronic transitions. Chemical Physics, 1993, 172, 1-6.	0.9	13
134	Simulation of pulsed laser material processing controlled by an extended self-organizing Kohonen feature map. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1993, 18, 281-288.	1.7	3
135	Measurement of the vibrational energy-transfer rates in mixtures of polyatomic molecules. Applied Physics B, Photophysics and Laser Chemistry, 1993, 57, 89-93.	1.5	1
136	Optimal control of quantum systems on metallic surfaces. Surface Science, 1993, 296, 251-260.	0.8	3
137	Population inversion in a multilevel system: a model study. The Journal of Physical Chemistry, 1993, 97, 6175-6183.	2.9	16
138	Optimal control of quantum systems by chirped pulses. Physical Review A, 1993, 48, 3830-3836.	1.0	55
139	Behavior of an Adaptive Self-organizing Autonomous Agent Working with Cues and Competing Concepts. Adaptive Behavior, 1993, 2, 131-160.	1.1	6
140	Topology Learning Solved by Extended Objects: A Neural Network Model. , 1993, , 678-678.		8
141	Integration of Artificial Neural Networks and Dynamic Concepts to an Adaptive and Self-Organizing Agent. , 1993, , 331-336.		0
142	Genetic Algorithm with Migration on Topology Conserving Maps. , 1993, , 605-608.		5
143	Dynamic spectra of two-electronic surface molecules. Spectrochimica Acta Part A: Molecular Spectroscopy, 1992, 48, 77-86.	0.1	2
144	Neural network formalization of the hungarian party-state system. Systems Research and Behavioral Science, 1992, 37, 81-108.	0.2	4

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145	Design and characterization of a windowless resonant photoacoustic chamber equipped with resonance locking circuitry. Review of Scientific Instruments, 1991, 62, 810-813.	0.6	42
146	Potential value of photoacoustic spectroscopy for determining iron content of milk protein concentrates. Journal of Dairy Research, 1991, 58, 453-460.	0.7	10
147	Hydrodynamic description of femtosecond transient thermoreflectivity. European Physical Journal B, 1991, 84, 361-367.	0.6	1
148	Two-electron-state molecule in strong electric fields. Physical Review A, 1991, 43, 2397-2401.	1.0	8
149	Comments on electron relaxation time measurements from transient reflectances of metals. Journal of Applied Physics, 1991, 70, 941-947.	1.1	6
150	Theory of picosecond transient reflectance measurement of thermal and elastic properties of thin metal films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1990, 5, 147-150.	1.7	3
151	Picosecond transient thermoreflectance: A new probe of two‐dimensional and quasi‐two‐dimensional structures. Journal of Applied Physics, 1990, 67, 2567-2570.	1.1	3
152	Resolution of nonlinear thermal wave microscopes. Applied Physics A: Solids and Surfaces, 1989, 48, 415-417.	1.4	10
153	Windowless resonant acoustic chamber for laser-photoacoustic applications. Applied Physics B, Photophysics and Laser Chemistry, 1989, 48, 213-218.	1.5	38
154	Determination of thermal transport properties of thin metal films from pulsed thermoreflectance measurements in the picosecond regime. Applied Physics B, Photophysics and Laser Chemistry, 1989, 48, 261-267.	1.5	12
155	Picosecond transient reflectance of thin metal films. Journal of Applied Physics, 1989, 66, 2968-2972.	1.1	19
156	Single-beam thermal-wave microscopes based on fourier imaging of phase information. Applied Physics B, Photophysics and Laser Chemistry, 1988, 47, 35-40.	1.5	5
157	Parallel‐processing single‐beam Fourier‐imaging thermal‐wave microscopes: Line‐heating systems. Journal of Applied Physics, 1988, 64, 4342-4346.	1.1	1
158	Resolution of thermal wave imaging methods for periodic structures. Journal of Applied Physics, 1988, 64, 6713-6715.	1.1	4
159	Signal generation in optically detecting thermal‐wave instruments. Journal of Applied Physics, 1988, 63, 2156-2158.	1.1	6
160	Transient thermoreflectance of thin metal films in the picosecond regime. Journal of Applied Physics, 1988, 63, 2391-2395.	1.1	33
161	High-exposure dosimetry with LiF (TLD-100) by photo-acoustic spectrometry. Journal Physics D: Applied Physics, 1988, 21, 820-825.	1.3	2
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163	Wave packet evolution in isolated pyrazine molecules: Coherence triumphs over chaos. Journal of Chemical Physics, 1985, 82, 1073-1078.	1.2	12
164	Rotational state dependence of pyrazine fluorescence: Initial decays for the vibrationless 1B3u state. Journal of Chemical Physics, 1985, 82, 1067-1072.	1.2	65
165	Uncoupled Helmholtz resonator: An open photoacoustic cell. Journal of Applied Physics, 1985, 58, 2105-2108.	1.1	8
166	Shotâ€noiseâ€limited detection scheme for twoâ€beam laser spectroscopies. Review of Scientific Instruments, 1984, 55, 64-67.	0.6	58
167	Relaxation of large molecules following ultrafast excitation. Chemical Physics Letters, 1984, 111, 322-325.	1.2	3
168	Comment on vibrational energy redistribution in the isolated dimethyltetrazine dimer. Journal of Chemical Physics, 1984, 81, 2295-2296.	1.2	9
169	Dielectric behavior of MgO:Li+ crystals. Journal of Applied Physics, 1982, 53, 4546-4548.	1.1	5
170	Thermally stimulated processes involving defects in Î³â€andxâ€irradiated spinel (MgAl2O4). Journal of Applied Physics, 1982, 53, 927-932.	1.1	43
171	Infrared divergence and Scher-Montroll model for transient electrical transport in amorphous semiconductors. Solid State Communications, 1982, 44, 109-111.	0.9	0
172	An algorithm for finding reliably schedulable plans. , 0, , .		0
173	Distributed mining of the internet for novel news: evolutionary community of news foragers. , 0, , .		1