

# Praveen Kumar

## List of Publications by Year in descending order

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Version: 2024-02-01

414  
papers

10,610  
citations

53794

45  
h-index

53230

85  
g-index

418  
all docs

418  
docs citations

418  
times ranked

12441  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of multi criteria decision making (MCDM) towards sustainable renewable energy development. Renewable and Sustainable Energy Reviews, 2017, 69, 596-609.	16.4	1,038
2	Wavelet analysis for geophysical applications. Reviews of Geophysics, 1997, 35, 385-412.	23.0	803
3	The future of hydrology: An evolving science for a changing world. Water Resources Research, 2010, 46, .	4.2	487
4	Transcriptional Profiles of CD133+ and CD133 <sup>+</sup> Glioblastoma-Derived Cancer Stem Cell Lines Suggest Different Cells of Origin. Cancer Research, 2010, 70, 2030-2040.	0.9	237
5	Implementation of Vehicle to Grid Infrastructure Using Fuzzy Logic Controller. IEEE Transactions on Smart Grid, 2012, 3, 565-577.	9.0	226
6	Ecohydrologic process networks: 1. Identification. Water Resources Research, 2009, 45, .	4.2	154
7	Large eddy simulation of propeller wake instabilities. Journal of Fluid Mechanics, 2017, 814, 361-396.	3.4	138
8	Implications for the hydrologic cycle under climate change due to the expansion of bioenergy crops in the Midwestern United States. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15085-15090.	7.1	125
9	A Multi Charging Station for Electric Vehicles and Its Utilization for Load Management and the Grid Support. IEEE Transactions on Smart Grid, 2013, 4, 1026-1037.	9.0	123
10	Decreasing, not increasing, leaf area will raise crop yields under global atmospheric change. Global Change Biology, 2017, 23, 1626-1635.	9.5	112
11	Precipitation Recycling Variability and Ecoclimatological Stability—A Study Using NARR Data. Part II: North American Monsoon Region. Journal of Climate, 2008, 21, 5187-5203.	3.2	110
12	Mathematical Modeling of Li-Ion Battery Using Genetic Algorithm Approach for V2G Applications. IEEE Transactions on Energy Conversion, 2014, 29, 332-343.	5.2	102
13	Mitigating land loss in coastal Louisiana by controlled diversion of Mississippi River sand. Nature Geoscience, 2012, 5, 534-537.	12.9	100
14	Integrated assessment of a sustainable microgrid for a remote village in hilly region. Energy Conversion and Management, 2019, 180, 442-472.	9.2	99
15	Designing a network of critical zone observatories to explore the living skin of the terrestrial Earth. Earth Surface Dynamics, 2017, 5, 841-860.	2.4	92
16	Review: Overcoming the paradox of strength and ductility in ultrafine-grained materials at low temperatures. Journal of Materials Science, 2016, 51, 7-18.	3.7	91
17	Simultaneous improvement in productivity, water use, and albedo through crop structural modification. Global Change Biology, 2014, 20, 1955-1967.	9.5	88
18	Typology of hydrologic predictability. Water Resources Research, 2011, 47, .	4.2	86

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19	Precipitation Recycling in the Indian Subcontinent during Summer Monsoon. <i>Journal of Hydrometeorology</i> , 2014, 15, 2050-2066.	1.9	86
20	Strategic integration of battery energy storage systems with the provision of distributed ancillary services in active distribution systems. <i>Applied Energy</i> , 2019, 253, 113503.	10.1	86
21	Role of Oceanic and Land Moisture Sources and Transport in the Seasonal and Interannual Variability of Summer Monsoon in India. <i>Journal of Climate</i> , 2017, 30, 1839-1859.	3.2	82
22	The Cancer Stem Cell Subtype Determines Immune Infiltration of Glioblastoma. <i>Stem Cells and Development</i> , 2012, 21, 2753-2761.	2.1	79
23	A Novel Methodological Framework for the Design of Sustainable Rural Microgrid for Developing Nations. <i>IEEE Access</i> , 2018, 6, 24925-24951.	4.2	79
24	Kinematic dispersion in stream networks 1. Coupling hydraulic and network geometry. <i>Water Resources Research</i> , 2002, 38, 26-1-26-14.	4.2	77
25	A data mining approach for understanding topographic control on climate-induced inter-annual vegetation variability over the United States. <i>Remote Sensing of Environment</i> , 2005, 98, 1-20.	11.0	74
26	Critical transition in critical zone of intensively managed landscapes. <i>Anthropocene</i> , 2018, 22, 10-19.	3.3	72
27	Linking resource availability and heterogeneity to understory species diversity through succession in boreal forest of Canada. <i>Journal of Ecology</i> , 2018, 106, 1266-1276.	4.0	70
28	Precipitation Recycling Variability and Ecoclimatological Stability—A Study Using NARR Data. Part I: Central U.S. Plains Ecoregion. <i>Journal of Climate</i> , 2008, 21, 5165-5186.	3.2	68
29	Temporal information partitioning: Characterizing synergy, uniqueness, and redundancy in interacting environmental variables. <i>Water Resources Research</i> , 2017, 53, 5920-5942.	4.2	66
30	A Scalable Silicon Nanowires-Grown-On-Graphite Composite for High-Energy Lithium Batteries. <i>ACS Nano</i> , 2020, 14, 12006-12015.	14.6	66
31	Ecohydrologic process networks: 2. Analysis and characterization. <i>Water Resources Research</i> , 2009, 45, .	4.2	65
32	An environmental cost-benefit analysis of alternative green roofing strategies. <i>Ecological Engineering</i> , 2016, 95, 1-9.	3.6	61
33	Mechanical characteristics of a Zn—22% Al alloy processed to very high strains by ECAP. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 429, 324-328.	5.6	60
34	Legacy Effects in Material Flux: Structural Catchment Changes Predate Long-Term Studies. <i>BioScience</i> , 2012, 62, 575-584.	4.9	59
35	Mathematical Modeling for Economic Evaluation of Electric Vehicle to Smart Grid Interaction. <i>IEEE Transactions on Smart Grid</i> , 2014, 5, 712-721.	9.0	59
36	Role of Oceanic and Terrestrial Atmospheric Moisture Sources in Intraseasonal Variability of Indian Summer Monsoon Rainfall. <i>Scientific Reports</i> , 2017, 7, 12729.	3.3	56

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37	Modified Mach-Zehnder interferometer for determining the high-order topological charge of Laguerre-Gaussian vortex beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019, 36, 1447.	1.5	56
38	Accurate Computation of Mutual Inductance of Two Air Core Square Coils with Lateral and Angular Misalignments in a Flat Planar Surface. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-9.	2.1	53
39	Emerging Importance of Survivin in Stem Cells and Cancer: the Development of New Cancer Therapeutics. <i>Stem Cell Reviews and Reports</i> , 2020, 16, 828-852.	3.8	53
40	Three-dimensional volume-averaged soil moisture transport model with a scalable parameterization of subgrid topographic variability. <i>Water Resources Research</i> , 2007, 43, .	4.2	52
41	Influence of EV on grid power quality and optimizing the charging schedule to mitigate voltage imbalance and reduce power loss. , 2010, , .		51
42	The influence of photosynthetic acclimation to rising CO <sub>2</sub> and warmer temperatures on leaf and canopy photosynthesis models. <i>Global Biogeochemical Cycles</i> , 2015, 29, 194-206.	4.9	51
43	Real-Time Coordination of Electric Vehicles to Support the Grid at the Distribution Substation Level. <i>IEEE Systems Journal</i> , 2015, 9, 1000-1010.	4.6	51
44	Impacts of hydraulic redistribution on grass-tree competition vs facilitation in a semi-arid savanna. <i>New Phytologist</i> , 2017, 215, 1451-1461.	7.3	51
45	Optimality approaches to describe characteristic fluvial patterns on landscapes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 1387-1395.	4.0	50
46	Fast and sensitive flow-injection mass spectrometry metabolomics by analyzing sample-specific ion distributions. <i>Nature Communications</i> , 2020, 11, 3186.	12.8	50
47	Multiple interactions between tree composition and diversity and microbial diversity underly litter decomposition. <i>Geoderma</i> , 2019, 341, 161-171.	5.1	49
48	Modeling and Control of Contactless Based Smart Charging Station in V2G Scenario. <i>IEEE Transactions on Smart Grid</i> , 2014, 5, 337-348.	9.0	48
49	Temporal Information Partitioning Networks (TIPNets): A process network approach to infer ecohydrologic shifts. <i>Water Resources Research</i> , 2017, 53, 5899-5919.	4.2	48
50	Large-eddy simulation of flow over an axisymmetric body of revolution. <i>Journal of Fluid Mechanics</i> , 2018, 853, 537-563.	3.4	48
51	The significance of grain boundary sliding in the superplastic Zn-22% Al alloy after processing by ECAP. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 410-411, 447-450.	5.6	47
52	GPU-based high-performance computing for integrated surface-sub-surface flow modeling. <i>Environmental Modelling and Software</i> , 2015, 73, 1-13.	4.5	46
53	3-D Analytical Model for Computation of Mutual Inductance for Different Misalignments With Shielding in Wireless Power Transfer System. <i>IEEE Transactions on Transportation Electrification</i> , 2017, 3, 332-342.	7.8	46
54	Regulation of Plasmodium falciparum Development by Calcium-dependent Protein Kinase 7 (PfCDPK7). <i>Journal of Biological Chemistry</i> , 2014, 289, 20386-20395.	3.4	45

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55	Power law scaling of topographic depressions and their hydrologic connectivity. <i>Geophysical Research Letters</i> , 2014, 41, 1553-1559.	4.0	45
56	Information Driven Ecohydrologic Self-Organization. <i>Entropy</i> , 2010, 12, 2085-2096.	2.2	44
57	Microstructurally Adaptive Model for Primary and Secondary Creep of Sn-Ag-Based Solders. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2012, 2, 256-265.	2.5	43
58	Kinematic dispersion in stream networks 2. Scale issues and self-similar network organization. <i>Water Resources Research</i> , 2002, 38, 27-1-27-15.	4.2	42
59	NVAP and Reanalysis-2 Global Precipitable Water Products : Intercomparison and Variability Studies. <i>Bulletin of the American Meteorological Society</i> , 2005, 86, 245-256.	3.3	42
60	Hydrocomplexity: Addressing water security and emergent environmental risks. <i>Water Resources Research</i> , 2015, 51, 5827-5838.	4.2	42
61	Nano- and Micro-Mechanical Properties of Ultrafine-Grained Materials Processed by Severe Plastic Deformation Techniques. <i>Advanced Engineering Materials</i> , 2017, 19, 1600578.	3.5	42
62	Multiscale Multiphase Lithiation and Delithiation Mechanisms in a Composite Electrode Unraveled by Simultaneous <i>Operando</i> Small-Angle and Wide-Angle X-Ray Scattering. <i>ACS Nano</i> , 2019, 13, 11538-11551.	14.6	40
63	Assessment of Floodplain Vulnerability during Extreme Mississippi River Flood 2011. <i>Environmental Science &amp; Technology</i> , 2014, 48, 2619-2625.	10.0	39
64	Solid-state diffusion-controlled growth of the intermediate phases from room temperature to an elevated temperature in the Cu-Sn and the Ni-Sn systems. <i>Journal of Alloys and Compounds</i> , 2017, 727, 832-840.	5.5	39
65	Patterns of change in high frequency precipitation variability over North America. <i>Scientific Reports</i> , 2017, 7, 10853.	3.3	39
66	Transport of probe particles in a polymer network: effects of probe size, network rigidity and probe-polymer interaction. <i>Soft Matter</i> , 2019, 15, 8992-9002.	2.7	39
67	A Conjunctive Surface-Subsurface Flow Representation for Mesoscale Land Surface Models. <i>Journal of Hydrometeorology</i> , 2013, 14, 1421-1442.	1.9	38
68	Bifurcation of the Kirkendall marker plane and the role of Ni and other impurities on the growth of Kirkendall voids in the Cu-Sn system. <i>Acta Materialia</i> , 2017, 131, 260-270.	7.9	38
69	A service-oriented architecture for coupling web service models using the Basic Model Interface (BMI). <i>Environmental Modelling and Software</i> , 2017, 92, 107-118.	4.5	37
70	Debates-Does Information Theory Provide a New Paradigm for Earth Science? Causality, Interaction, and Feedback. <i>Water Resources Research</i> , 2020, 56, e2019WR024940.	4.2	37
71	Nano-Architected Composite Anode Enabling Long-Term Cycling Stability for High-Capacity Lithium-Ion Batteries. <i>Small</i> , 2020, 16, e1906812.	10.0	37
72	Numerical simulations of hydraulic redistribution across climates: The role of the root hydraulic conductivities. <i>Water Resources Research</i> , 2015, 51, 8529-8550.	4.2	36

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73	The contribution of grain boundary sliding in tensile deformation of an ultrafine-grained aluminum alloy having high strength and high ductility. <i>Journal of Materials Science</i> , 2015, 50, 3549-3561.	3.7	36
74	Dynamic process connectivity explains ecohydrologic responses to rainfall pulses and drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8604-E8613.	7.1	36
75	Passive regulation of soil biogeochemical cycling by root water transport. <i>Water Resources Research</i> , 2013, 49, 3729-3746.	4.2	35
76	Wrinkling of Atomic Planes in Ultrathin Au Nanowires. <i>Nano Letters</i> , 2014, 14, 4859-4866.	9.1	35
77	Critical Zone services as environmental assessment criteria in intensively managed landscapes. <i>Earth's Future</i> , 2017, 5, 617-632.	6.3	34
78	Functional Topology of Evolving Urban Drainage Networks. <i>Water Resources Research</i> , 2017, 53, 8966-8979.	4.2	34
79	Mathematical modeling of Li-ion battery for charge/discharge rate and capacity fading characteristics using genetic algorithm approach. , 2012, , .		33
80	Glioprotective Effects of Ashwagandha Leaf Extract against Lead Induced Toxicity. <i>BioMed Research International</i> , 2014, 2014, 1-15.	1.9	33
81	Identification of whisker grain in Sn coatings by analyzing crystallographic micro-texture using electron back-scatter diffraction. <i>Acta Materialia</i> , 2017, 134, 346-359.	7.9	33
82	Predicting the direct and indirect impacts of climate change on malaria in coastal Kenya. <i>PLoS ONE</i> , 2019, 14, e0211258.	2.5	33
83	A critical examination of the paradox of strength and ductility in ultrafine-grained metals. <i>Journal of Materials Research</i> , 2014, 29, 2534-2546.	2.6	32
84	Design, Prototyping, and Testing of a Dual-Rotor Motor for Electric Vehicle Application. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 7185-7192.	7.9	32
85	Variability, Feedback, and Cooperative Process Dynamics: Elements of a Unifying Hydrologic Theory. <i>Geography Compass</i> , 2007, 1, 1338-1360.	2.7	31
86	PbSe mid-IR photoconductive thin films (part I): Phase analysis of the functional layer. <i>Journal of Alloys and Compounds</i> , 2017, 724, 316-326.	5.5	31
87	Signatures of Hydrologic Function Across the Critical Zone Observatory Network. <i>Water Resources Research</i> , 2021, 57, e2019WR026635.	4.2	31
88	Hydrodynamic and geomorphologic dispersion: scale effects in the Illinois River Basin. <i>Journal of Hydrology</i> , 2004, 288, 237-257.	5.4	30
89	Contact formation of front side metallization in p-type, single crystalline Si solar cells: Microstructure, temperature dependent series resistance and percolation model. <i>Solar Energy Materials and Solar Cells</i> , 2016, 145, 358-367.	6.2	30
90	Multiyear Load Growth Based Techno-Financial Evaluation of a Microgrid for an Academic Institution. <i>IEEE Access</i> , 2018, 6, 37533-37555.	4.2	30

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91	Self-referenced interference of laterally displaced vortex beams for topological charge determination. Optics Communications, 2020, 459, 125000.	2.1	30
92	Multi-scale quantification and modeling of aged nanostructured silicon-based composite anodes. Communications Chemistry, 2020, 3, .	4.5	30
93	Non-interferometric technique to realize vector beams embedded with polarization singularities. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1043.	1.5	30
94	Layer averaged Richard's equation with lateral flow. Advances in Water Resources, 2004, 27, 521-531.	3.8	29
95	Emergence of self-similar tree network organization. Complexity, 2008, 13, 30-37.	1.6	29
96	Fifty years of Harper's Dorn creep: a viable creep mechanism or a Californian artifact?. Journal of Materials Science, 2007, 42, 409-420.	3.7	28
97	Comparative Study of Rheological Behavior of Modified Binders for High-Temperature Areas. Journal of Materials in Civil Engineering, 2010, 22, 978-984.	2.9	28
98	Threshold Dynamics in Soil Carbon Storage for Bioenergy Crops. Environmental Science & Technology, 2014, 48, 12090-12098.	10.0	28
99	Assessing the value of seasonal climate forecast information through an end-to-end forecasting framework: Application to U.S. 2012 drought in central Illinois. Water Resources Research, 2014, 50, 6592-6609.	4.2	28
100	Effect of Ni content on the diffusion-controlled growth of the product phases in the Cu(Ni)-Sn system. Philosophical Magazine, 2016, 96, 15-30.	1.6	28
101	Steering operational synergies in terrestrial observation networks: opportunity for advancing Earth system dynamics modelling. Earth System Dynamics, 2018, 9, 593-609.	7.1	28
102	Hydraulic geometry and the nonlinearity of the network instantaneous response. Water Resources Research, 2004, 40, .	4.2	27
103	Critical review of flexible pavement performance models. KSCE Journal of Civil Engineering, 2014, 18, 142-148.	1.9	27
104	Carbon Storage Declines in Old Boreal Forests Irrespective of Succession Pathway. Ecosystems, 2018, 21, 1168-1182.	3.4	27
105	Behaviour of Subgrade Soil Reinforced with Geogrid. International Journal of Pavement Engineering, 2004, 5, 201-209.	4.4	26
106	Electrolithography- A New and Versatile Process for Nano Patterning. Scientific Reports, 2016, 5, 17753.	3.3	26
107	Effects of coarse woody debris on plant and lichen species composition in boreal forests. Journal of Vegetation Science, 2017, 28, 389-400.	2.2	26
108	Impact of carbon emissions on cost of debt-evidence from India. Managerial Finance, 2018, 44, 1401-1417.	1.2	26

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109	Impact of Sampling in the Operation of Vehicle to Grid and Its Mitigation. IEEE Transactions on Industrial Informatics, 2019, 15, 3923-3933.	11.3	26
110	Parameter extraction of battery models using multiobjective optimization genetic algorithms. , 2010, , .		25
111	Recrystallization and $\{m Ag\}_{3}\{m Sn\}$ Particle Redistribution During Thermomechanical Treatment of Bulk Sn-4Ag-Cu Solder Alloys. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 1868-1875.	2.5	25
112	Incorporating Reanalysis-Based Short-Term Forecasts from a Regional Climate Model in an Irrigation Scheduling Optimization Problem. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 699-713.	2.6	25
113	Speed Estimation Technique Using Modified Stator Current Error-Based MRAS for Direct Torque Controlled Induction Motor Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1223-1235.	5.4	25
114	Electric Current-Induced Mass Flow in Very Thin Infinite Metallic Films. IEEE Transactions on Electron Devices, 2013, 60, 2877-2883.	3.0	24
115	Smart Public Transit System Using an Energy Storage System and Its Coordination With a Distribution Grid. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1622-1632.	8.0	24
116	Interaction Between Ecohydrologic Dynamics and Microtopographic Variability Under Climate Change. Water Resources Research, 2017, 53, 8383-8403.	4.2	24
117	Impact of Hydraulic Redistribution on Multispecies Vegetation Water Use in a Semiarid Savanna Ecosystem: An Experimental and Modeling Synthesis. Water Resources Research, 2018, 54, 4009-4027.	4.2	24
118	Dynamics of understorey biomass, production and turnover associated with long-term overstorey succession in boreal forest of Canada. Forest Ecology and Management, 2018, 427, 152-161.	3.2	24
119	Impacts of Subsurface Tile Drainage on Age-Dependent Concentration Dynamics of Inorganic Nitrogen in Soil. Water Resources Research, 2019, 55, 1470-1489.	4.2	24
120	Examination of propeller sound production using large eddy simulation. Physical Review Fluids, 2018, 3, .	2.5	24
121	Analysis of vehicle to Grid concept in Indian scenario. , 2010, , .		23
122	Evolution of microhardness and microstructure in a cast Al-7% Si alloy during high-pressure torsion. Journal of Materials Science, 2013, 48, 4671-4680.	3.7	23
123	Formation of singular light fields using phase calibrated spatial light modulator. Optics and Lasers in Engineering, 2021, 146, 106720.	3.8	23
124	Enhanced exclusive-OR and quick response code-based image encryption through incoherent illumination. Applied Optics, 2019, 58, 1408.	1.8	22
125	Controllable Optical Vortex Array for Image Encoding. IEEE Photonics Technology Letters, 2022, 34, 521-524.	2.5	22
126	Analysis of induction motor for electric vehicle application based on drive cycle analysis. , 2014, , .		21



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127	Performance evaluation of structural properties for soil stabilised using rice husk ash. Road Materials and Pavement Design, 2014, 15, 539-553.	4.0	21
128	N-type single-crystalline Si solar cells: Front side metallization for solar cells reaching 20% efficiency. Solar Energy Materials and Solar Cells, 2016, 157, 200-208.	6.2	21
129	Species mixture increases production partitioning to belowground in a natural boreal forest. Forest Ecology and Management, 2019, 432, 667-674.	3.2	21
130	Mean age distribution of inorganic soil nitrogen. Water Resources Research, 2016, 52, 5516-5536.	4.2	20
131	Characterizing Vegetation Canopy Structure Using Airborne Remote Sensing Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1160-1178.	6.3	20
132	Image encryption using phase-encoded exclusive-OR operations with incoherent illumination. Journal of Optics (United Kingdom), 2019, 21, 065701.	2.2	20
133	A Fuzzy Logic and Artificial Neural Network-Based Intelligent Controller for a Vehicle-to-Grid System. IEEE Systems Journal, 2021, 15, 3301-3311.	4.6	20
134	Arbitrary Vector Beam Encoding Using Single Modulation for Information Security Applications. IEEE Photonics Technology Letters, 2021, 33, 243-246.	2.5	20
135	Towards Sustainable Curation and Preservation: The SEAD Project's Data Services Approach. , 2015, , .		19
136	Analytical Model for Permanent Magnet Motor With Slotting Effect, Armature Reaction, and Ferromagnetic Material Property. IEEE Transactions on Magnetics, 2015, 51, 1-10.	2.1	19
137	Solid-state diffusion-controlled growth of the phases in the Au-Sn system. Philosophical Magazine, 2018, 98, 20-36.	1.6	19
138	Efficiency and performance analysis of DTC-based IM drivetrain using variable dc-link voltage for electric vehicle applications. IET Electrical Systems in Transportation, 2018, 8, 205-214.	2.4	19
139	Comprehensive Small Animal Imaging Strategies on a Clinical 3 T Dedicated Head MR-Scanner; Adapted Methods and Sequence Protocols in CNS Pathologies. PLoS ONE, 2011, 6, e16091.	2.5	18
140	A graphical user interface for numerical modeling of acclimation responses of vegetation to climate change. Computers and Geosciences, 2012, 49, 91-101.	4.2	18
141	Manipulating Crystallographic Texture of Sn Coatings by Optimization of Electrodeposition Process Conditions to Suppress Growth of Whiskers. Journal of Electronic Materials, 2015, 44, 1206-1219.	2.2	18
142	Photoabsorption Assignments for the C <sub>1</sub> f <sub>1</sub> B <sub>2</sub> and C <sub>1</sub> f <sub>1</sub> A <sub>1</sub> Vibronic Transitions of SO <sub>2</sub> , Using New Ab Initio Potential Energy and Transition Dipole Surfaces. Journal of Physical Chemistry A, 2017, 121, 1012-1021.	2.5	18
143	Effect of Ni on growth kinetics, microstructural evolution and crystal structure in the Cu(Ni)-Sn system. Philosophical Magazine, 2017, 97, 1782-1802.	1.6	18
144	Role of Microtopographic Variability on the Distribution of Inorganic Soil Nitrogen Age in Intensively Managed Landscape. Water Resources Research, 2017, 53, 8404-8422.	4.2	18

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145	Phase-field modeling of grain-boundary grooving and migration under electric current and thermal gradient. <i>Acta Materialia</i> , 2018, 153, 377-390.	7.9	18
146	PbSe mid-IR photoconductive thin films (part-II): Structural analysis of the functional layer. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1654-1661.	5.5	18
147	Impacts of Quaternary History on Critical Zone Structure and Processes: Examples and a Conceptual Model From the Intensively Managed Landscapes Critical Zone Observatory. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	18
148	Wetlandscape Fractal Topography. <i>Geophysical Research Letters</i> , 2018, 45, 6983-6991.	4.0	18
149	Modeling the Role of Root Exudation in Critical Zone Nutrient Dynamics. <i>Water Resources Research</i> , 2020, 56, e2019WR026606.	4.2	18
150	Self-referenced spiral interferogram using modified lateral shearing Mach-Zehnder interferometer. <i>Applied Optics</i> , 2019, 58, 6827.	1.8	18
151	Laboratory Study on Moisture Susceptibility of Dense Graded Mixes. <i>Journal of Transportation Engineering</i> , 2012, 138, 105-113.	0.9	17
152	Identification of three phase induction machines equivalent circuits parameters using multi-objective genetic algorithms. , 2014, , .		17
153	Analysis and comparison of series-series and series-parallel topology of contactless power transfer systems. , 2014, , .		17
154	New <i>ab initio</i> adiabatic potential energy surfaces and bound state calculations for the singlet ground $X^1A_1$ and excited $C^1B_2(2^1A_2)$ states of $SO_2$ . <i>Journal of Chemical Physics</i> , 2016, 144, 174301.	3.0	17
155	Analysis of axisymmetric boundary layers. <i>Journal of Fluid Mechanics</i> , 2018, 849, 927-941.	3.4	17
156	Effect of graphene interlayer on resistance spot welded AISI-1008 steel joints. <i>Materials Research Express</i> , 2019, 6, 0865c3.	1.6	17
157	A Unipolar Coil Arrangement Method for Improving the Coupling Coefficient Without Ferrite Material in Wireless Power Transfer Systems. <i>IEEE Transactions on Transportation Electrification</i> , 2020, 6, 497-509.	7.8	17
158	Stray Loss Model for Induction Motors With Using Equivalent Circuit Parameters. <i>IEEE Transactions on Energy Conversion</i> , 2020, 35, 1036-1045.	5.2	17
159	Periodic Architecture for High Performance Shock Absorbing Composites. <i>Scientific Reports</i> , 2013, 3, 2056.	3.3	16
160	Emergent and divergent resilience behavior in catastrophic shift systems. <i>Ecological Modelling</i> , 2015, 298, 87-105.	2.5	16
161	Efficiency investigation for electric vehicle powertrain with variable DC-link bus voltage. , 2016, , .		16
162	Epixylic vegetation abundance, diversity, and composition vary with coarse woody debris decay class and substrate species in boreal forest. <i>Canadian Journal of Forest Research</i> , 2018, 48, 399-411.	1.7	16

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163	Smart public transportation network expansion and its interaction with the grid. International Journal of Electrical Power and Energy Systems, 2019, 105, 365-380.	5.5	16
164	Film thickness mediated transition in the kinetics of electric current induced flow of thin liquid metal films. Applied Physics Letters, 2014, 104, 214102.	3.3	15
165	Information Theoretic Measures to Infer Feedback Dynamics in Coupled Logistic Networks. Entropy, 2015, 17, 7468-7492.	2.2	15
166	High-Efficiency Crystalline-Si Solar Cells with Screen-Printed Front-Side Metallization: A Percolation Model to Explain the Current Path. Journal of Electronic Materials, 2016, 45, 5764-5772.	2.2	15
167	Core loss calculation in different parts of induction motor. IET Electric Power Applications, 2017, 11, 1664-1674.	1.8	15
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