

Praveen Kumar

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

368
papers

7,187
citations

38
h-index

72
g-index

418
ext. papers

8,986
ext. citations

4.3
avg, IF

6.69
L-index

#	Paper	IF	Citations
368	A review of multi criteria decision making (MCDM) towards sustainable renewable energy development. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 69, 596-609	16.2	659
367	Wavelet analysis for geophysical applications. <i>Reviews of Geophysics</i> , 1997 , 35, 385-412	23.1	622
366	The future of hydrology: An evolving science for a changing world. <i>Water Resources Research</i> , 2010 , 46,	5.4	391
365	Transcriptional profiles of CD133+ and CD133- glioblastoma-derived cancer stem cell lines suggest different cells of origin. <i>Cancer Research</i> , 2010 , 70, 2030-40	10.1	209
364	Implementation of Vehicle to Grid Infrastructure Using Fuzzy Logic Controller. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 565-577	10.7	163
363	Ecohydrologic process networks: 1. Identification. <i>Water Resources Research</i> , 2009 , 45,	5.4	121
362	Implications for the hydrologic cycle under climate change due to the expansion of bioenergy crops in the Midwestern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15085-90	11.5	104
361	Precipitation Recycling Variability and Ecoclimatological Stability A Study Using NARR Data. Part II: North American Monsoon Region. <i>Journal of Climate</i> , 2008 , 21, 5187-5203	4.4	93
360	Mitigating land loss in coastal Louisiana by controlled diversion of Mississippi River sand. <i>Nature Geoscience</i> , 2012 , 5, 534-537	18.3	85
359	Large eddy simulation of propeller wake instabilities. <i>Journal of Fluid Mechanics</i> , 2017 , 814, 361-396	3.7	84
358	Typology of hydrologic predictability. <i>Water Resources Research</i> , 2011 , 47,	5.4	79
357	A Multi Charging Station for Electric Vehicles and Its Utilization for Load Management and the Grid Support. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 1026-1037	10.7	76
356	Decreasing, not increasing, leaf area will raise crop yields under global atmospheric change. <i>Global Change Biology</i> , 2017 , 23, 1626-1635	11.4	73
355	Kinematic dispersion in stream networks 1. Coupling hydraulic and network geometry. <i>Water Resources Research</i> , 2002 , 38, 26-1-26-14	5.4	73
354	Review: Overcoming the paradox of strength and ductility in ultrafine-grained materials at low temperatures. <i>Journal of Materials Science</i> , 2016 , 51, 7-18	4.3	72
353	Precipitation Recycling in the Indian Subcontinent during Summer Monsoon. <i>Journal of Hydrometeorology</i> , 2014 , 15, 2050-2066	3.7	68
352	Simultaneous improvement in productivity, water use, and albedo through crop structural modification. <i>Global Change Biology</i> , 2014 , 20, 1955-67	11.4	68

351	Mathematical Modeling of Li-Ion Battery Using Genetic Algorithm Approach for V2G Applications. <i>IEEE Transactions on Energy Conversion</i> , 2014 , 29, 332-343	5.4	65
350	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	13.2	65
349	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	4.4	62
348	Integrated assessment of a sustainable microgrid for a remote village in hilly region. <i>Energy Conversion and Management</i> , 2019 , 180, 442-472	10.6	61
347	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	4.4	56
346	The cancer stem cell subtype determines immune infiltration of glioblastoma. <i>Stem Cells and Development</i> , 2012 , 21, 2753-61	4.4	55
345	A Novel Methodological Framework for the Design of Sustainable Rural Microgrid for Developing Nations. <i>IEEE Access</i> , 2018 , 6, 24925-24951	3.5	53
344	Designing a network of critical zone observatories to explore the living skin of the terrestrial Earth. <i>Earth Surface Dynamics</i> , 2017 , 5, 841-860	3.8	52
343	Legacy Effects in Material Flux: Structural Catchment Changes Predate Long-Term Studies. <i>BioScience</i> , 2012 , 62, 575-584	5.7	52
342	Ecohydrologic process networks: 2. Analysis and characterization. <i>Water Resources Research</i> , 2009 , 45,	5.4	52
341	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	10.7	51
340	Mechanical characteristics of a Zn2% Al alloy processed to very high strains by ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 429, 324-328	5.3	51
339	Critical transition in critical zone of intensively managed landscapes. <i>Anthropocene</i> , 2018 , 22, 10-19	3.9	49
338	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	6	48
337	Mathematical Modeling for Economic Evaluation of Electric Vehicle to Smart Grid Interaction. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 712-721	10.7	44
336	Three-dimensional volume-averaged soil moisture transport model with a scalable parameterization of subgrid topographic variability. <i>Water Resources Research</i> , 2007 , 43,	5.4	44
335	An environmental cost-benefit analysis of alternative green roofing strategies. <i>Ecological Engineering</i> , 2016 , 95, 1-9	3.9	44
334	Temporal information partitioning: Characterizing synergy, uniqueness, and redundancy in interacting environmental variables. <i>Water Resources Research</i> , 2017 , 53, 5920-5942	5.4	43

333	The significance of grain boundary sliding in the superplastic Zn22% Al alloy after processing by ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 447-450	5.3	42
332	Optimality approaches to describe characteristic fluvial patterns on landscapes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010 , 365, 1387-95	5.8	40
331	Kinematic dispersion in stream networks 2. Scale issues and self-similar network organization. <i>Water Resources Research</i> , 2002 , 38, 27-1-27-15	5.4	39
330	Information Driven Ecohydrologic Self-Organization. <i>Entropy</i> , 2010 , 12, 2085-2096	2.8	38
329	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	37
328	Impacts of hydraulic redistribution on grass-tree competition vs facilitation in a semi-arid savanna. <i>New Phytologist</i> , 2017 , 215, 1451-1461	9.8	37
327	Power law scaling of topographic depressions and their hydrologic connectivity. <i>Geophysical Research Letters</i> , 2014 , 41, 1553-1559	4.9	36
326	The influence of photosynthetic acclimation to rising CO2 and warmer temperatures on leaf and canopy photosynthesis models. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 194-206	5.9	35
325	Real-Time Coordination of Electric Vehicles to Support the Grid at the Distribution Substation Level. <i>IEEE Systems Journal</i> , 2015 , 9, 1000-1010	4.3	35
324	Hydrocomplexity: Addressing water security and emergent environmental risks. <i>Water Resources Research</i> , 2015 , 51, 5827-5838	5.4	34
323	NVAP and Reanalysis-2 Global Precipitable Water Products : Intercomparison and Variability Studies. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 245-256	6.1	34
322	Assessment of floodplain vulnerability during extreme Mississippi River flood 2011. <i>Environmental Science & Technology</i> , 2014 , 48, 2619-25	10.3	33
321	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	33
320	Temporal Information Partitioning Networks (TIPNets): A process network approach to infer ecohydrologic shifts. <i>Water Resources Research</i> , 2017 , 53, 5899-5919	5.4	33
319	Role of Oceanic and Terrestrial Atmospheric Moisture Sources in Intraseasonal Variability of Indian Summer Monsoon Rainfall. <i>Scientific Reports</i> , 2017 , 7, 12729	4.9	32
318	GPU-based high-performance computing for integrated surface-sub-surface flow modeling. <i>Environmental Modelling and Software</i> , 2015 , 73, 1-13	5.2	32
317	Regulation of Plasmodium falciparum development by calcium-dependent protein kinase 7 (PfCDPK7). <i>Journal of Biological Chemistry</i> , 2014 , 289, 20386-95	5.4	32
316	Influence of EV on grid power quality and optimizing the charging schedule to mitigate voltage imbalance and reduce power loss 2010 ,		32

315	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	4.3	31
314	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	1.7	31
313	A Conjunctive Surface-Subsurface Flow Representation for Mesoscale Land Surface Models. <i>Journal of Hydrometeorology</i> , 2013 , 14, 1421-1442	3.7	31
312	Wrinkling of atomic planes in ultrathin Au nanowires. <i>Nano Letters</i> , 2014 , 14, 4859-66	11.5	30
311	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	8.4	29
310	Modeling and Control of Contactless Based Smart Charging Station in V2G Scenario. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 337-348	10.7	29
309	Variability, Feedback, and Cooperative Process Dynamics: Elements of a Unifying Hydrologic Theory. <i>Geography Compass</i> , 2007 , 1, 1338-1360	2.4	29
308	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	7.6	28
307	Patterns of change in high frequency precipitation variability over North America. <i>Scientific Reports</i> , 2017 , 7, 10853	4.9	28
306	Passive regulation of soil biogeochemical cycling by root water transport. <i>Water Resources Research</i> , 2013 , 49, 3729-3746	5.4	28
305	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	5.2	27
304	Numerical simulations of hydraulic redistribution across climates: The role of the root hydraulic conductivities. <i>Water Resources Research</i> , 2015 , 51, 8529-8550	5.4	27
303	A Scalable Silicon Nanowires-Grown-On-Graphite Composite for High-Energy Lithium Batteries. <i>ACS Nano</i> , 2020 , 14, 12006-12015	16.7	27
302	A critical examination of the paradox of strength and ductility in ultrafine-grained metals. <i>Journal of Materials Research</i> , 2014 , 29, 2534-2546	2.5	26
301	Hydrodynamic and geomorphologic dispersion: scale effects in the Illinois River Basin. <i>Journal of Hydrology</i> , 2004 , 288, 237-257	6	26
300	Bifurcation of the Kirkendall marker plane and the role of Ni and other impurities on the growth of Kirkendall voids in the Cu ₃ Sn system. <i>Acta Materialia</i> , 2017 , 131, 260-270	8.4	25
299	Mathematical modeling of Li-ion battery for charge/discharge rate and capacity fading characteristics using genetic algorithm approach 2012 ,		25
298	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, 1447-1455	1.8	25

297	Multiple interactions between tree composition and diversity and microbial diversity underly litter decomposition. <i>Geoderma</i> , 2019 , 341, 161-171	6.7	24
296	Assessing the value of seasonal climate forecast information through an end-to-end forecasting framework: Application to U.S. 2012 drought in central Illinois. <i>Water Resources Research</i> , 2014 , 50, 6592-6609	5.4	24
295	Functional Topology of Evolving Urban Drainage Networks. <i>Water Resources Research</i> , 2017 , 53, 8966-8979	7.9	24
294	Emergence of self-similar tree network organization. <i>Complexity</i> , 2008 , 13, 30-37	1.6	24
293	Layer averaged Richard's equation with lateral flow. <i>Advances in Water Resources</i> , 2004 , 27, 521-531	4.7	23
292	Steering operational synergies in terrestrial observation networks: opportunity for advancing Earth system dynamics modelling. <i>Earth System Dynamics</i> , 2018 , 9, 593-609	4.8	23
291	Fast and sensitive flow-injection mass spectrometry metabolomics by analyzing sample-specific ion distributions. <i>Nature Communications</i> , 2020 , 11, 3186	17.4	22
290	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	6.4	22
289	Effect of Ni content on the diffusion-controlled growth of the product phases in the Cu(Ni)Sn system. <i>Philosophical Magazine</i> , 2016 , 96, 15-30	1.6	22
288	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	5.7	22
287	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	11.5	21
286	Critical Zone services as environmental assessment criteria in intensively managed landscapes. <i>Earth's Future</i> , 2017 , 5, 617-632	7.9	21
285	Glioprotective effects of Ashwagandha leaf extract against lead induced toxicity. <i>BioMed Research International</i> , 2014 , 2014, 182029	3	21
284	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	3.6	21
283	Threshold dynamics in soil carbon storage for bioenergy crops. <i>Environmental Science & Technology</i> , 2014 , 48, 12090-8	10.3	20
282	Evolution of microhardness and microstructure in a cast Al7 % Si alloy during high-pressure torsion. <i>Journal of Materials Science</i> , 2013 , 48, 4671-4680	4.3	20
281	Interaction Between Ecohydrologic Dynamics and Microtopographic Variability Under Climate Change. <i>Water Resources Research</i> , 2017 , 53, 8383-8403	5.4	20
280	Fifty years of HarperDorn creep: a viable creep mechanism or a Californian artifact?. <i>Journal of Materials Science</i> , 2007 , 42, 409-420	4.3	20

279	Behaviour of Subgrade Soil Reinforced with Geogrid. <i>International Journal of Pavement Engineering</i> , 2004 , 5, 201-209	2.6	20
278	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	7.3	20
277	Multiscale Multiphase Lithiation and Delithiation Mechanisms in a Composite Electrode Unraveled by Simultaneous Small-Angle and Wide-Angle X-Ray Scattering. <i>ACS Nano</i> , 2019 , 13, 11538-11551	16.7	19
276	Design, Prototyping, and Testing of a Dual-Rotor Motor for Electric Vehicle Application. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7185-7192	8.9	19
275	Solid-state diffusion-controlled growth of the intermediate phases from room temperature to an elevated temperature in the Cu ₃ N and the Ni ₃ N systems. <i>Journal of Alloys and Compounds</i> , 2017 , 727, 832-840	5.7	19
274	Parameter extraction of battery models using multiobjective optimization genetic algorithms 2010 ,		19
273	Hydraulic geometry and the nonlinearity of the network instantaneous response. <i>Water Resources Research</i> , 2004 , 40,	5.4	19
272	Effects of coarse woody debris on plant and lichen species composition in boreal forests. <i>Journal of Vegetation Science</i> , 2017 , 28, 389-400	3.1	18
271	Analytical Model for Permanent Magnet Motor With Slotting Effect, Armature Reaction, and Ferromagnetic Material Property. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-10	2	18
270	. <i>IEEE Access</i> , 2018 , 6, 37533-37555	3.5	18
269	Comparative Study of Rheological Behavior of Modified Binders for High-Temperature Areas. <i>Journal of Materials in Civil Engineering</i> , 2010 , 22, 978-984	3	18
268	Recrystallization and Ag_3Sn Particle Redistribution During Thermomechanical Treatment of Bulk SnAgCu Solder Alloys. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2013 , 3, 1868-1875	1.7	17
267	Incorporating Reanalysis-Based Short-Term Forecasts from a Regional Climate Model in an Irrigation Scheduling Optimization Problem. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 699-713	2.8	17
266	Characterizing Vegetation Canopy Structure Using Airborne Remote Sensing Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 1160-1178	8.1	16
265	Predicting the direct and indirect impacts of climate change on malaria in coastal Kenya. <i>PLoS ONE</i> , 2019 , 14, e0211258	3.7	16
264	Nano-Architected Composite Anode Enabling Long-Term Cycling Stability for High-Capacity Lithium-Ion Batteries. <i>Small</i> , 2020 , 16, e1906812	11	16
263	Dynamics of understory biomass, production and turnover associated with long-term overstorey succession in boreal forest of Canada. <i>Forest Ecology and Management</i> , 2018 , 427, 152-161	3.9	16
262	Smart Public Transit System Using an Energy Storage System and Its Coordination With a Distribution Grid. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 1622-1632	6.1	16

261	Comprehensive small animal imaging strategies on a clinical 3 T dedicated head MR-scanner; adapted methods and sequence protocols in CNS pathologies. <i>PLoS ONE</i> , 2011 , 6, e16091	3.7	16
260	Photoabsorption Assignments for the C B \leftarrow X A Vibronic Transitions of SO, Using New Ab Initio Potential Energy and Transition Dipole Surfaces. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 1012-1021	2.8	15
259	Manipulating Crystallographic Texture of Sn Coatings by Optimization of Electrodeposition Process Conditions to Suppress Growth of Whiskers. <i>Journal of Electronic Materials</i> , 2015 , 44, 1206-1219	1.9	15
258	N-type single-crystalline Si solar cells: Front side metallization for solar cells reaching 20% efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 157, 200-208	6.4	15
257	Large-eddy simulation of flow over an axisymmetric body of revolution. <i>Journal of Fluid Mechanics</i> , 2018 , 853, 537-563	3.7	15
256	Towards Sustainable Curation and Preservation: The SEAD Project's Data Services Approach 2015 ,		15
255	Critical review of flexible pavement performance models. <i>KSCE Journal of Civil Engineering</i> , 2014 , 18, 142-148	1.9	15
254	A graphical user interface for numerical modeling of acclimation responses of vegetation to climate change. <i>Computers and Geosciences</i> , 2012 , 49, 91-101	4.5	15
253	Analysis of vehicle to Grid concept in Indian scenario 2010 ,		15
252	Carbon Storage Declines in Old Boreal Forests Irrespective of Succession Pathway. <i>Ecosystems</i> , 2018 , 21, 1168-1182	3.9	15
251	Emergent and divergent resilience behavior in catastrophic shift systems. <i>Ecological Modelling</i> , 2015 , 298, 87-105	3	14
250	Mean age distribution of inorganic soil-nitrogen. <i>Water Resources Research</i> , 2016 , 52, 5516-5536	5.4	14
249	Periodic architecture for high performance shock absorbing composites. <i>Scientific Reports</i> , 2013 , 3, 20564.9	4.9	14
248	Impact of Sampling in the Operation of Vehicle to Grid and Its Mitigation. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 3923-3933	11.9	14
247	Solid-state diffusion-controlled growth of the phases in the AuSn system. <i>Philosophical Magazine</i> , 2018 , 98, 20-36	1.6	14
246	Effect of Ni on growth kinetics, microstructural evolution and crystal structure in the Cu(Ni)Sn system. <i>Philosophical Magazine</i> , 2017 , 97, 1782-1802	1.6	13
245	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	5.7	13
244	Impact of Hydraulic Redistribution on Multispecies Vegetation Water Use in a Semiarid Savanna Ecosystem: An Experimental and Modeling Synthesis. <i>Water Resources Research</i> , 2018 , 54, 4009-4027	5.4	13

243	Effect of electro-mechanical coupling on actuation behavior of a carbon nanotube cellular structure. <i>Carbon</i> , 2013 , 60, 169-174	10.4	13
242	Influence of strain rate on strength and ductility in an aluminum alloy processed by equal-channel angular pressing. <i>Journal of Materials Science</i> , 2009 , 44, 3913-3916	4.3	13
241	Self-referenced interference of laterally displaced vortex beams for topological charge determination. <i>Optics Communications</i> , 2020 , 459, 125000	2	13
240	New ab initio adiabatic potential energy surfaces and bound state calculations for the singlet ground X (1)A1 and excited C (1)B2(2(1)A(")) states of SO2. <i>Journal of Chemical Physics</i> , 2016 , 144, 174303-9	3.9	13
239	Species mixture increases production partitioning to belowground in a natural boreal forest. <i>Forest Ecology and Management</i> , 2019 , 432, 667-674	3.9	13
238	Role of Micro-Topographic Variability on the Distribution of Inorganic Soil-Nitrogen Age in Intensively Managed Landscape. <i>Water Resources Research</i> , 2017 , 53, 8404-8422	5.4	12
237	Effect of graphene interlayer on resistance spot welded AISI-1008 steel joints. <i>Materials Research Express</i> , 2019 , 6, 0865c3	1.7	12
236	Impacts of Subsurface Tile Drainage on Age-Dependent Concentration Dynamics of Inorganic Nitrogen in Soil. <i>Water Resources Research</i> , 2019 , 55, 1470-1489	5.4	12
235	Phase-field modeling of grain-boundary grooving and migration under electric current and thermal gradient. <i>Acta Materialia</i> , 2018 , 153, 377-390	8.4	12
234	Cu-Bi alloys with high volume fraction of Bi: A material potentially suitable for thermal surge protection and energy storage. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 677, 140-152	5.3	12
233	Wetlandscape Fractal Topography. <i>Geophysical Research Letters</i> , 2018 , 45, 6983-6991	4.9	12
232	Electric Current-Induced Mass Flow in Very Thin Infinite Metallic Films. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 2877-2883	2.9	12
231	Laboratory Study on Moisture Susceptibility of Dense Graded Mixes. <i>Journal of Transportation Engineering</i> , 2012 , 138, 105-113		12
230	Non-interferometric technique to realize vector beams embedded with polarization singularities. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020 , 37, 1043-1052	1.8	12
229	Ternary, single-crystalline Bi2 (Te, Se)3 nanowires grown by electrodeposition. <i>Acta Materialia</i> , 2017 , 125, 238-245	8.4	11
228	Debates Does Information Theory Provide a New Paradigm for Earth Science? Causality, Interaction, and Feedback. <i>Water Resources Research</i> , 2020 , 56, e2019WR024940	5.4	11
227	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	1.9	11
226	Electric field induced ultra-high actuation in a bulk carbon nanotube structure. <i>Carbon</i> , 2014 , 67, 546-553	10.4	11

225	Small-scale solar plants coupled with smart public transport system and its coordination with the grid. <i>IET Electrical Systems in Transportation</i> , 2017 , 7, 135-144	2.1	11
224	Direct imaging of dopant distributions across the Si-metallization interfaces in solar cells: Correlative nano-analytics by electron microscopy and NanoSIMS. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 160, 398-409	6.4	11
223	Information Theoretic Measures to Infer Feedback Dynamics in Coupled Logistic Networks. <i>Entropy</i> , 2015 , 17, 7468-7492	2.8	11
222	Enhanced exclusive-OR and quick response code-based image encryption through incoherent illumination. <i>Applied Optics</i> , 2019 , 58, 1408-1412	1.7	11
221	High-Efficiency Crystalline-Si Solar Cells with Screen-Printed Front-Side Metallization: A Percolation Model to Explain the Current Path. <i>Journal of Electronic Materials</i> , 2016 , 45, 5764-5772	1.9	11
220	Smart public transportation network expansion and its interaction with the grid. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 105, 365-380	5.1	11
219	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 5133-5147	8.1	10
218	Effect of strain rate and filler size on mechanical behavior of a Cu filled elastomer based composite. <i>Composites Science and Technology</i> , 2016 , 127, 185-192	8.6	10
217	Mechanical and thermal modeling of In-Cu composites for thermal interface materials applications. <i>Journal of Composite Materials</i> , 2014 , 48, 1391-1398	2.7	10
216	Analysis of induction motor for electric vehicle application based on drive cycle analysis 2014 ,		10
215	Battery modeling and fast charging of EV 2010 ,		10
214	Examination of propeller sound production using large eddy simulation. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	10
213	Impact of carbon emissions on cost of debt-evidence from India. <i>Managerial Finance</i> , 2018 , 44, 1401-1417.	0.9	10
212	Three-Dimensional Modeling of the Coevolution of Landscape and Soil Organic Carbon. <i>Water Resources Research</i> , 2019 , 55, 1218-1241	5.4	9
211	Image encryption using phase-encoded exclusive-OR operations with incoherent illumination. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 065701	1.7	9
210	Comment on Climate and agricultural land use change impacts on streamflow in the upper midwestern United States by Satish C. Gupta et al.. <i>Water Resources Research</i> , 2016 , 52, 7536-7539	5.4	9
209	2-D Analytical Subdomain Model for Hybrid Dual-Rotor Motor. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-9	2	9
208	Critical Evaluation of Relative Importance of Stress and Stress Gradient in Whisker Growth in Sn Coatings. <i>Journal of Electronic Materials</i> , 2018 , 47, 5229-5242	1.9	9

207	Core-loss calculation in different parts of induction motor. <i>IET Electric Power Applications</i> , 2017 , 11, 1664-1674	4.8	9
206	Performance evaluation of structural properties for soil stabilised using rice husk ash. <i>Road Materials and Pavement Design</i> , 2014 , 15, 539-553	2.6	9
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204	LES Applied to Ship Research. <i>Journal of Ship Research</i> , 2015 , 59, 238-245	0.9	9
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79	Fuzzy based active and reactive power support to the distribution network using electric vehicles 2015 ,		2
78	A novel smart meter for better control over devices including electric vehicles and to enable smart use of power in smart home 2015 ,		2
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76	Analysis of stray loss and its determination with equivalent circuit for double cage rotor induction motor 2013 ,		2
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53	Distributed active and reactive power transfer for voltage regulation using V2G system 2015 ,		1
52	Drive system for electric vehicle power train application using DC to AC matrix converter 2014 ,		1
51	2014 ,		1
50	Design of Fuzzy Logic based PD Controller using cuckoo optimization for inverted pendulum 2014 ,		1
49	A model of Electric Vehicle charging station compatibles with Vehicle to Grid scenario 2012 ,		1
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