

Nallapaneni Manoj Kumar

List of Publications by Citations

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137
papers

1,923
citations

22
h-index

36
g-index

145
ext. papers

3,017
ext. citations

3.2
avg, IF

6.22
L-index

#	Paper	IF	Citations
137	Blockchain technology for security issues and challenges in IoT. <i>Procedia Computer Science</i> , 2018 , 132, 1815-1823	1.6	153
136	. <i>IEEE Access</i> , 2020 , 8, 74432-74457	3.5	118
135	Investigation of Inorganic Phase Change Material for a Semi-Transparent Photovoltaic (STPV) Module. <i>Energies</i> , 2020 , 13, 3582	3.1	65
134	Performance analysis of 100 kWp grid connected Si-poly photovoltaic system using PVsyst simulation tool. <i>Energy Procedia</i> , 2017 , 117, 180-189	2.3	62
133	The Internet of Things: Insights into the building blocks, component interactions, and architecture layers. <i>Procedia Computer Science</i> , 2018 , 132, 109-117	1.6	62
132	Performance, energy loss, and degradation prediction of roof-integrated crystalline solar PV system installed in Northern India. <i>Case Studies in Thermal Engineering</i> , 2019 , 13, 100409	5.6	53
131	Exploring blockchain for the energy transition: Opportunities and challenges based on a case study in Japan. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 117, 109488	16.2	49
130	Techno-economic analysis of 1 MWp grid connected solar PV plant in Malaysia. <i>International Journal of Ambient Energy</i> , 2019 , 40, 434-443	2	47
129	Recent 3D and 4D intelligent printing technologies: A comparative review and future perspective. <i>Procedia Computer Science</i> , 2020 , 167, 1210-1219	1.6	47
128	Hybrid Renewable Energy Microgrid for a Residential Community: A Techno-Economic and Environmental Perspective in the Context of the SDG7. <i>Sustainability</i> , 2020 , 12, 3944	3.6	45
127	Performance comparison of BAPV and BIPV systems with c-Si, CIS and CdTe photovoltaic technologies under tropical weather conditions. <i>Case Studies in Thermal Engineering</i> , 2019 , 13, 100374	5.6	45
126	COVID-DeepNet: Hybrid Multimodal Deep Learning System for Improving COVID-19 Pneumonia Detection in Chest X-ray Images. <i>Computers, Materials and Continua</i> , 2021 , 67, 2409-2429	3.9	43
125	Distributed Energy Resources and the Application of AI, IoT, and Blockchain in Smart Grids. <i>Energies</i> , 2020 , 13, 5739	3.1	34
124	IoT based smart agrotech system for verification of Urban farming parameters. <i>Microprocessors and Microsystems</i> , 2021 , 82, 104025	2.4	34
123	Performance and degradation assessment of large-scale grid-connected solar photovoltaic power plant in tropical semi-arid environment of India. <i>Solar Energy</i> , 2020 , 203, 101-113	6.8	32
122	A State-of-the-Art Review on the Drive of Renewables in Gujarat, State of India: Present Situation, Barriers and Future Initiatives. <i>Energies</i> , 2020 , 13, 40	3.1	31
121	Envisioning the UN Sustainable Development Goals (SDGs) through the lens of energy sustainability (SDG 7) in the post-COVID-19 world. <i>Applied Energy</i> , 2021 , 292, 116665	10.7	31

120	Operational Performance and Degradation Influenced Life Cycle Environmental Economic Metrics of mc-Si, a-Si and HIT Photovoltaic Arrays in Hot Semi-arid Climates. <i>Sustainability</i> , 2020 , 12, 1075	3.6	30
119	Experimental analysis of solar concrete collector for residential buildings. <i>International Journal of Green Energy</i> , 2021 , 18, 615-623	3	27
118	Dominance of Fossil Fuels in Japan's National Energy Mix and Implications for Environmental Sustainability. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	27
117	Risk priority number for understanding the severity of photovoltaic failure modes and their impacts on performance degradation. <i>Case Studies in Thermal Engineering</i> , 2019 , 16, 100563	5.6	25
116	On the technologies empowering drones for intelligent monitoring of solar photovoltaic power plants. <i>Procedia Computer Science</i> , 2018 , 133, 585-593	1.6	25
115	Optimal energy performance and comparison of open rack and roof mount mono c-Si photovoltaic Systems. <i>Energy Procedia</i> , 2017 , 117, 136-144	2.3	21
114	Linking Economic Growth, Urbanization, and Environmental Degradation in China: What Is the Role of Hydroelectricity Consumption?. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	21
113	Operational performance of on-grid solar photovoltaic system integrated into pre-fabricated portable cabin buildings in warm and temperate climates. <i>Energy for Sustainable Development</i> , 2020 , 57, 109-118	5.4	20
112	Analysis of Using Biogas Resources for Electric Vehicle Charging in Bangladesh: A Techno-Economic-Environmental Perspective. <i>Sustainability</i> , 2020 , 12, 2579	3.6	20
111	Effect of exhaust gas re-circulation on performance, emission and combustion characteristics of ethanol-fueled diesel engine. <i>Case Studies in Thermal Engineering</i> , 2020 , 20, 100643	5.6	19
110	Performance of thin-film BIPV as double sloped pitched roof in buildings of Malaysia. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018 , 40, 2476-2484	1.6	19
109	Fossil Fuel to Solar Power: A Sustainable Technical Design for Street Lighting in Fugar City, Nigeria. <i>Procedia Computer Science</i> , 2016 , 93, 956-966	1.6	19
108	Exergy analysis of thin-film solar PV module in ground-mount, floating and submerged installation methods. <i>Case Studies in Thermal Engineering</i> , 2020 , 21, 100686	5.6	18
107	Power Resilience Enhancement of a Residential Electricity User Using Photovoltaics and a Battery Energy Storage System under Uncertainty Conditions. <i>Energies</i> , 2020 , 13, 4193	3.1	18
106	Solar irradiance forecasting and energy optimization for achieving nearly net zero energy building. <i>Journal of Renewable and Sustainable Energy</i> , 2018 , 10, 035103	2.5	17
105	A Novel Islanding Detection Technique for a Resilient Photovoltaic-Based Distributed Power Generation System Using a Tunable-Q Wavelet Transform and an Artificial Neural Network. <i>Energies</i> , 2020 , 13, 4238	3.1	17
104	Internet of Things (IoT) in Photovoltaic Systems 2018 ,		17
103	Smart cities in India: Features, policies, current status, and challenges 2018 ,		16

102	Impact of Clean Development Mechanism on Eco-friendly Energy Recovery Technology. <i>Procedia Technology</i> , 2015 , 21, 54-58		16
101	Modelling the daily reference evapotranspiration in semi-arid region of South India: A case study comparing ANFIS and empirical models. <i>Information Processing in Agriculture</i> , 2021 , 8, 173-184	4.2	16
100	A High Gain DC-DC Converter with Grey Wolf Optimizer Based MPPT Algorithm for PV Fed BLDC Motor Drive. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2797	2.6	14
99	Artificial intelligence-based solution for sorting COVID related medical waste streams and supporting data-driven decisions for smart circular economy practice. <i>Chemical Engineering Research and Design</i> , 2021 , 152, 482-494	5.5	14
98	Beyond environmental Kuznets curve and policy implications to promote sustainable development in Mediterranean. <i>Energy Reports</i> , 2021 , 7, 6119-6129	4.6	14
97	A preliminary study of the degradation of large-scale c-Si photovoltaic system under four years of operation in semi-arid climates. <i>Results in Physics</i> , 2019 , 12, 1395-1397	3.7	13
96	Solar photovoltaic tree and its end-of-life management using thermal and chemical treatments for material recovery. <i>Case Studies in Thermal Engineering</i> , 2019 , 14, 100474	5.6	13
95	A Review of Optimization Algorithms in Solving Hydro Generation Scheduling Problems. <i>Energies</i> , 2020 , 13, 2787	3.1	13
94	Blockchain: Enabling wide range of services in distributed energy system. <i>Beni-Suef University Journal of Basic and Applied Sciences</i> , 2018 , 7, 701-704	2.2	13
93	Design and Wind Tunnel Testing of Funnel Based Wind Energy Harvesting System. <i>Procedia Technology</i> , 2015 , 21, 33-40		13
92	Energy loss analysis of a large scale BIPV system for university buildings in tropical weather conditions: A partial and cumulative performance ratio approach. <i>Case Studies in Thermal Engineering</i> , 2021 , 25, 100916	5.6	13
91	Dust cleaning robots (DCR) for BIPV and BAPV solar power plants-A conceptual framework and research challenges. <i>Procedia Computer Science</i> , 2018 , 133, 746-754	1.6	13
90	Decarbonize Russia [A Best/Worst Method approach for assessing the renewable energy potentials, opportunities and challenges. <i>Energy Reports</i> , 2021 , 7, 4498-4515	4.6	13
89	Three years ahead solar irradiance forecasting to quantify degradation influenced energy potentials from thin film (a-Si) photovoltaic system. <i>Results in Physics</i> , 2019 , 12, 701-703	3.7	12
88	Techno-economic optimization and real-time comparison of sun tracking photovoltaic system for rural healthcare building. <i>Journal of Renewable and Sustainable Energy</i> , 2019 , 11, 015301	2.5	12
87	Estimation of grid feed in electricity from roof integrated Si-amorph PV system based on orientation, tilt and available roof surface area 2017 ,		12
86	Outdoor measurement of mono and poly c-Si PV modules and array characteristics under varying load in hot-humid tropical climate. <i>Materials Today: Proceedings</i> , 2018 , 5, 3456-3464	1.4	12
85	Lifecycle cost analysis (LCCA) of tailor-made building integrated photovoltaics (BIPV) façade: Solsmaragden case study in Norway. <i>Solar Energy</i> , 2020 , 211, 488-502	6.8	12

84	Vertical Axis Wind Turbine: Aerodynamic Modelling and its Testing in Wind Tunnel. <i>Procedia Computer Science</i> , 2016 , 93, 1017-1023	1.6	12
83	Preparation and characterization of two dye-sensitized solar cells using <i>Acalypha Godseffia</i> and <i>Epipremnum Aureum</i> dyes as sensitizers. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 42, 1662-1673	1.6	12
82	Performance comparison of building integrated multi-wattage photovoltaic generators mounted vertically and horizontally 2017 ,		11
81	Availability factor of a PV power plant: evaluation based on generation and inverter running periods. <i>Energy Procedia</i> , 2018 , 147, 71-77	2.3	11
80	A Comprehensive Survey on Different Control Strategies and Applications of Active Power Filters for Power Quality Improvement. <i>Energies</i> , 2021 , 14, 4589	3.1	11
79	Underwater performance of thin-film photovoltaic module immersed in shallow and deep waters along with possible applications. <i>Results in Physics</i> , 2019 , 15, 102768	3.7	10
78	Systematic Categorization of Optimization Strategies for Virtual Power Plants. <i>Energies</i> , 2020 , 13, 6251	3.1	10
77	Firefly Algorithm-Based Photovoltaic Array Reconfiguration for Maximum Power Extraction during Mismatch Conditions. <i>Sustainability</i> , 2021 , 13, 3206	3.6	10
76	Clean Energies for Ghana: An Empirical Study on the Level of Social Acceptance of Renewable Energy Development and Utilization. <i>Sustainability</i> , 2021 , 13, 3114	3.6	10
75	Performance evaluation of CdTe BIPV roof and façades in tropical weather conditions. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 42, 1057-1071	1.6	10
74	Effect of Two Different Heat Transfer Fluids on the Performance of Solar Tower CSP by Comparing Recompression Supercritical CO ₂ and Rankine Power Cycles, China. <i>Energies</i> , 2021 , 14, 3426	3.1	9
73	Internet of Things (IoT): An Opportunity for Energy-Food-Water Nexus 2018 ,		9
72	A grasshopper optimization algorithm for optimal short-term hydrothermal scheduling. <i>Energy Reports</i> , 2021 , 7, 314-323	4.6	9
71	Experimental investigation on bi-axial superplastic forming characteristics of AA6063/SiCp with various percentages of SiCp under various temperatures and pressures. <i>Results in Physics</i> , 2019 , 15, 102624	3.7	8
70	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO ₂ capture. <i>Green Chemistry</i> , 2022 ,	10	8
69	Progress and challenges of crop production and electricity generation in agrivoltaic systems using semi-transparent photovoltaic technology. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 158, 112126	16.2	8
68	Wearable Smart Glass: Features, Applications, Current Progress and Challenges 2018 ,		8
67	High temperature superplasticity and its deformation mechanism of AA6063/SiC. <i>Case Studies in Thermal Engineering</i> , 2019 , 14, 100479	5.6	7

66	Effect of infill pattern, density and material type of 3D printed cubic structure under quasi-static loading. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020 , 095440622097166	1.3	7
65	Performance of Hybrid Filter in a Microgrid Integrated Power System Network Using Wavelet Techniques. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6792	2.6	7
64	Data acquisition system: On the solar photovoltaic module and weather parameters monitoring. <i>Procedia Computer Science</i> , 2018 , 132, 873-879	1.6	7
63	Comparative life-cycle cost and GHG emission analysis of five different water heating systems for residential buildings in Australia. <i>Beni-Suef University Journal of Basic and Applied Sciences</i> , 2018 , 7, 748-751	2.3	7
62	Model to estimate the potential and performance of Wavevoltaics. <i>Results in Physics</i> , 2019 , 12, 914-916	3.7	6
61	Wireless technology applied in 3-axis filament winding machine control system using MIT app inventor. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 469, 012030	0.4	6
60	Experimental performance investigation of Partially Stabilized Zirconia coated low heat rejection diesel engine with waste plastic oil as a fuel. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 1-14	1.6	6
59	Scenario-Based Investigation on the Effect of Partial Shading Condition Patterns for Different Static Solar Photovoltaic Array Configurations. <i>IEEE Access</i> , 2021 , 9, 116050-116072	3.5	6
58	. <i>IEEE Access</i> , 2021 , 9, 51865-51895	3.5	6
57	Integrated modeling and feasibility analysis of a rooftop photovoltaic systems for an academic building in Bangladesh. <i>International Journal of Low-Carbon Technologies</i> ,	2.8	6
56	Performance of single-sloped pitched roof cadmium telluride (CdTe) building-integrated photovoltaic system in tropical weather conditions. <i>Beni-Suef University Journal of Basic and Applied Sciences</i> , 2019 , 8,	2.2	5
55	Experimental assessment of the 3-axis filament winding machine performance. <i>Results in Engineering</i> , 2019 , 2, 100017	3.3	5
54	Effect of winding angle on the quasi-static crushing behaviour of thin-walled carbon fibre-reinforced polymer tubes. <i>Polymers and Polymer Composites</i> , 2020 , 28, 462-472	0.8	5
53	Solar PV module technologies 2020 , 51-78		5
52	Design and Analysis of Photovoltaic Powered Battery-Operated Computer Vision-Based Multi-Purpose Smart Farming Robot. <i>Agronomy</i> , 2021 , 11, 530	3.6	5
51	Feasibility Assessment of Hybrid Solar Photovoltaic-Biogas Generator Based Charging Station: A Case of Easy Bike and Auto Rickshaw Scenario in a Developing Nation. <i>Sustainability</i> , 2022 , 14, 166	3.6	5
50	Solar Cell Technology Selection for a PV Leaf Based on Energy and Sustainability Indicators: A Case of a Multilayered Solar Photovoltaic Tree. <i>Energies</i> , 2020 , 13, 6439	3.1	4
49	Experimental study on novel curved blade vertical axis wind turbines. <i>Results in Engineering</i> , 2020 , 7, 100149	3.3	4

48	Effect of boundary factor and material property on single square honeycomb sandwich panel subjected to quasi-static compression loading. <i>Journal of Mechanical Engineering and Sciences</i> , 2020 , 14, 7348-7360	2	4
47	Selected Aspects of Sustainable Mobility Reveals Implementable Approaches and Conceivable Actions. <i>Sustainability</i> , 2021 , 13, 12918	3.6	4
46	Solar PV systems design and monitoring 2020 , 117-145		4
45	Potential emission reductions from India's transport sector: a view from the green transportation projects under CDM. <i>Energy Procedia</i> , 2018 , 147, 438-444	2.3	4
44	Nanofluid as coolant for grinding process: An overview. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 342, 012078	0.4	4
43	On-Grid Solar Photovoltaic System: Components, Design Considerations, and Case Study 2018 ,		4
42	Power generation using Green Technology in Iron and Steel industry 2015 ,		3
41	Impacts of COVID-19 on Sustainable Development Goals and effective approaches to maneuver them in the post-pandemic environment.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	3
40	Influence of tilt angle on energy yields and performance ratios of grid connected photovoltaic generators in Southeast Asia. <i>Progress in Industrial Ecology</i> , 2019 , 13, 264	0.8	3
39	Quality Management Practices of Food Manufacturers: A Comparative Study between Small, Medium and Large Companies in Malaysia. <i>Sustainability</i> , 2020 , 12, 7725	3.6	3
38	Life cycle assessment and environmental impacts of solar PV systems 2020 , 391-411		3
37	A Rigid Cuckoo Search Algorithm for Solving Short-Term Hydrothermal Scheduling Problem. <i>Sustainability</i> , 2021 , 13, 4277	3.6	3
36	A Critical Review of Power Take-Off Wave Energy Technology Leading to the Conceptual Design of a Novel Wave-Plus-Photon Energy Harvester for Island/Coastal Communities' Energy Needs. <i>Sustainability</i> , 2022 , 14, 2354	3.6	3
35	Charge Scheduling Optimization of Plug-In Electric Vehicle in a PV Powered Grid-Connected Charging Station Based on Day-Ahead Solar Energy Forecasting in Australia. <i>Sustainability</i> , 2022 , 14, 3498 ⁶	3.6	3
34	U-drill embedded with phase change heat transfer device for machining applications. <i>Case Studies in Thermal Engineering</i> , 2019 , 15, 100533	5.6	2
33	Smart grid and power quality issues 2018 , 195-202		2
32	Exhaust Gas Recirculation on a Nano-Coated Combustion Chamber of a Diesel Engine Fueled with Waste Plastic Oil. <i>Sustainability</i> , 2022 , 14, 1148	3.6	2
31	Effect of Soiling on Power Output of a Photovoltaic System. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 351-359	0.2	2

30	Speed control of 3-phase Induction motor fed through direct matrix converter using GSPWM technique with unity input power factor 2016 ,		2
29	Estimation of solar collector area for water heating in buildings of Malaysia. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 342, 012039	0.4	2
28	Computational analysis of three blade vertical axis wind turbine. <i>Progress in Industrial Ecology</i> , 2018 , 12, 120	0.8	2
27	Applicability of Wearable Smart Glass for Solar Power Plant Operation and Maintenance 2018 ,		2
26	Realtime monitoring on the HIT photovoltaic module characteristic parameters at STC, high and low irradiance conditions in Algeria. <i>Procedia Computer Science</i> , 2018 , 132, 1238-1242	1.6	2
25	Optical Head, Mounted Displays (OHMDs) in Visual Inspection of Solar and Wind Power Systems 2018 ,		2
24	BIPV Power Plants and Policy recommendatons 2018 ,		2
23	Modelling of heuristic distribution algorithm to optimize flexible production scheduling in Indian industry. <i>Procedia Computer Science</i> , 2020 , 167, 1120-1127	1.6	1
22	Data related to crystalline photovoltaic plant performance in the semi-arid climate of India. <i>Data in Brief</i> , 2020 , 31, 105696	1.2	1
21	Application of Multi-domain Fusion Methods for Detecting Epilepsy from Electroencephalogram Using Classification Methods. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 743-754	0.4	1
20	Computer-Aided Diagnosis of Epilepsy Based on the Time-Frequency Texture Descriptors of EEG Signals Using Wavelet Packet Decomposition and Artificial Neural Network. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 677-688	0.4	1
19	Photovoltaic Thermal Collectors with Phase Change Material for Southeast of England. <i>Springer Proceedings in Energy</i> , 2021 , 1425-1430	0.2	1
18	Optimally Tuned Interleaved Luo Converter for PV Array Fed BLDC Motor Driven Centrifugal Pumps Using Whale Optimization Algorithm A Resilient Solution for Powering Agricultural Loads. <i>Electronics (Switzerland)</i> , 2020 , 9, 1445	2.6	1
17	Airfoil selection and computational study on the torque performance of 4-blade vertical axis wind turbine. <i>Journal of Physics: Conference Series</i> , 2018 , 1139, 012040	0.3	1
16	Small Scale Rooftop Solar PV Systems for Rural Electrification in India 2018 ,		1
15	BIPV Market Growth: SWOT Analysis and Favorable Factors 2018 ,		1
14	Multi-criteria decision analysis for optimal planning of desalination plant feasibility in different urban cities in India. <i>Journal of Cleaner Production</i> , 2021 , 315, 128146	10.3	1
13	Web-Based Decision Support System for Managing the Food-Water-Soil-Ecosystem Nexus in the Kolleru Freshwater Lake of Andhra Pradesh in South India. <i>Sustainability</i> , 2022 , 14, 2044	3.6	1

12	A Critical Assessment on Functional Attributes and Degradation Mechanism of Membrane Electrode Assembly Components in Direct Methanol Fuel Cells. <i>Sustainability</i> , 2021 , 13, 13938	3.6	1
11	Economics and environmental impacts of solar energy technologies 2022 , 391-423		1
10	A Novel Sensorless Approach for Speed and Displacement Control of Bearingless Switched Reluctance Motor. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4070	2.6	0
9	Assessing the Environmental Footprint of Distiller-Dried Grains with Soluble Diet as a Substitute for Standard Corn/Soybean for Swine Production in the United States of America. <i>Sustainability</i> , 2022 , 14, 1161	3.6	0
8	A comprehensive review of dye-sensitized solar cell optimal fabrication conditions, natural dye selection, and application-based future perspectives. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	0
7	Advancing simulation tools specific to floating solar photovoltaic systems [Comparative analysis of field-measured and simulated energy performance. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102168	4.7	0
6	AC/DC Microgrids 2020 , 41-58		
5	Development of Single and Multi-jet Conical Nozzle Based Open Jet Facility for Cold Jet Simulation. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 309-322	0.4	
4	Performance of Photovoltaics in Ground Mount-Floating-Submerged Installation Methods. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 199-207	0.2	
3	An Overview of Various Control and Stability Techniques for Power-Sharing in Microgrids. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 1-14	0.2	
2	Two Blade Vertical Axis Wind Turbine: Investigations on the Torque Generation at Different Rotational Velocities. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 455, 012093	0.4	
1	Natural Dyes from Ornamental Plants as Sensitizers for Dye-Sensitized Solar Cells (DSSCs): A Review on the Structure-Activity Relationships (SARs) between Power Conversion Efficiencies and Chemical Constituents. <i>Russian Journal of Applied Chemistry</i> , 2021 , 94, 1561-1576	0.8	