Ke Wang

List of Publications by Year in descending order

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KE WANC

#	Article	IF	CITATIONS
1	High-Speed Optical Wireless Communication System for Indoor Applications. IEEE Photonics Technology Letters, 2011, 23, 519-521.	2.5	93
2	4\$,imes,\$12.5 Gb/s WDM Optical Wireless Communication System for Indoor Applications. Journal of Lightwave Technology, 2011, 29, 1988-1996.	4.6	84
3	Ultra-broadband and low-loss 3  dB optical power splitter based on adiabatic tapered silicon waveguides. Optics Letters, 2016, 41, 2053.	3.3	83
4	High-speed duplex optical wireless communication system for indoor personal area networks. Optics Express, 2010, 18, 25199.	3.4	63
5	Full-Duplex Gigabit Indoor Optical Wireless Communication System With CAP Modulation. IEEE Photonics Technology Letters, 2016, 28, 790-793.	2.5	55
6	Bi ₂ S ₃ /C nanorods as efficient anode materials for lithium-ion batteries. Dalton Transactions, 2019, 48, 1906-1914.	3.3	48
7	A novel colorimetric and near-infrared fluorescent probe for hydrogen peroxide imaging in vitro and in vivo. RSC Advances, 2015, 5, 85957-85963.	3.6	43
8	Self-Supported NiSe ₂ Nanowire Arrays on Carbon Fiber Paper as Efficient and Stable Electrode for Hydrogen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2018, 6, 11884-11891.	6.7	37
9	Experimental Demonstration of a Full-Duplex Indoor Optical Wireless Communication System. IEEE Photonics Technology Letters, 2012, 24, 188-190.	2.5	35
10	High-speed indoor optical wireless communication system employing a silicon integrated photonic circuit. Optics Letters, 2018, 43, 3132.	3.3	35
11	ZIF-67@Se@MnO ₂ : A Novel Co-MOF-Based Composite Cathode for Lithium–Selenium Batteries. Journal of Physical Chemistry C, 2019, 123, 2048-2055.	3.1	35
12	Differential Transmission Lines Loaded With Magnetic LC Resonators and Application in Common Mode Suppression. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 3811-3821.	5.4	29
13	High-speed indoor optical wireless communication system with single channel imaging receiver. Optics Express, 2012, 20, 8442.	3.4	27
14	Indoor infrared optical wireless localization system with background light power estimation capability. Optics Express, 2017, 25, 22923.	3.4	26
15	Experimental Demonstration of Indoor Infrared Optical Wireless Communications With a Silicon Photonic Integrated Circuit. Journal of Lightwave Technology, 2019, 37, 619-626.	4.6	25
16	Low-Loss and Broadband <inline-formula> <tex-math notation="LaTeX">\$2 imes 2\$ </tex-math> </inline-formula> Polarization Beam Splitter Based on Silicon Nitride Platform. IEEE Photonics Technology Letters, 2016, 28, 1936-1939.	2.5	23
17	Performance Analysis of Repetition-Coding and Space-Time-Block-Coding as Transmitter Diversity Schemes for Indoor Optical Wireless Communications. Journal of Lightwave Technology, 2019, 37, 5170-5177.	4.6	23
18	Recycling Plastic Waste for Environmental Remediation in Water Purification and CO ₂ Capture. ACS Applied Polymer Materials, 2020, 2, 2586-2593.	4.4	22

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19	Ultra-broadband, compact, and high-reflectivity circular Bragg grating mirror based on 220 nm silicon-on-insulator platform. Optics Express, 2017, 25, 6653.	3.4	21
20	Impact of background light induced shot noise in high-speed full-duplex indoor optical wireless communication systems. Optics Express, 2011, 19, 21321.	3.4	20
21	Experimental demonstration of a novel indoor optical wireless localization system for high-speed personal area networks. Optics Letters, 2015, 40, 1246.	3.3	20
22	Optical Wireless-Based Indoor Localization System Employing a Single-Channel Imaging Receiver. Journal of Lightwave Technology, 2016, 34, 1141-1149.	4.6	20
23	Machine Learning Applications for Short Reach Optical Communication. Photonics, 2022, 9, 30.	2.0	19
24	New palbociclib analogues modified at the terminal piperazine ring and their anticancer activities. European Journal of Medicinal Chemistry, 2016, 122, 546-556.	5.5	18
25	Four-Wave-Mixing-Based Silicon Integrated Optical Isolator With Dynamic Non-Reciprocity. IEEE Photonics Technology Letters, 2016, 28, 1739-1742.	2.5	18
26	Machine Learning Techniques in Radio-over-Fiber Systems and Networks. Photonics, 2020, 7, 105.	2.0	18
27	Recent advances on next generation of polyzwitterion-based nano-vectors for targeted drug delivery. Journal of Controlled Release, 2022, 343, 492-505.	9.9	18
28	A novel Zr-MOF-based and polyaniline-coated UIO-67@Se@PANI composite cathode for lithium–selenium batteries. Dalton Transactions, 2019, 48, 10191-10198.	3.3	17
29	High-Speed Reconfigurable Free-Space Card-to-Card Optical Interconnects. IEEE Photonics Journal, 2012, 4, 1407-1419.	2.0	16
30	Experimental demonstration of high-speed free-space reconfigurable card-to-card optical interconnects. Optics Express, 2013, 21, 2850.	3.4	16
31	Secure multiple access for indoor optical wireless communications with time-slot coding and chaotic phase. Optics Express, 2017, 25, 22046.	3.4	16
32	Online Sparse Multi-Output Gaussian Process Regression and Learning. IEEE Transactions on Signal and Information Processing Over Networks, 2019, 5, 258-272.	2.8	16
33	One-step synthesis of MOF-derived Ga/Ga ₂ O ₃ @C dodecahedra as an anode material for high-performance lithium-ion batteries. Dalton Transactions, 2019, 48, 12386-12390.	3.3	15
34	Manipulating Auâ^'CeO ₂ Interfacial Structure Toward Ultrahigh Mass Activity and Selectivity for CO ₂ Reduction. ChemSusChem, 2020, 13, 6621-6628.	6.8	15
35	Superior lithium-storage properties derived from a g-C ₃ N ₄ -embedded honeycomb-shaped meso@mesoporous carbon nanofiber anode loaded with Fe ₂ O ₃ for Li-i <u>on batteries. Dalton Transactions, 2021, 50, 9775-9786.</u>	3.3	15
36	Recurrent neural network (RNN) for delay-tolerant repetition-coded (RC) indoor optical wireless communication systems. Optics Letters, 2019, 44, 3745.	3.3	15

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37	Several carbon-coated Ga ₂ O ₃ anodes: efficient coating of reduced graphene oxide enhanced the electrochemical performance of lithium ion batteries. Dalton Transactions, 2021, 50, 3660-3670.	3.3	14
38	Indoor optical wireless access networks—recent progress [Invited]. Journal of Optical Communications and Networking, 2021, 13, A178.	4.8	14
39	Experimental demonstration of 3×310  Gb/s reconfigurable free space optical card-to-card interconnects. Optics Letters, 2012, 37, 2553.	3.3	13
40	High contrast circular grating reflector on silicon-on-insulator platform. Optics Letters, 2016, 41, 520.	3.3	13
41	Metal–Organic Aerogel Assisted Reduced Graphene Oxide Coated Sulfur as a Cathode Material for Lithium Sulfur Batteries. Energy & Fuels, 2021, 35, 2742-2749.	5.1	13
42	A Framework for the Design and Deployment of Large-Scale LPWAN Networks for Smart Cities Applications. IEEE Internet of Things Magazine, 2021, 4, 53-59.	2.6	13
43	Performance of High-Speed Reconfigurable Free-Space Card-to-Card Optical Interconnects Under Air Turbulence. Journal of Lightwave Technology, 2013, 31, 1687-1693.	4.6	12
44	Impact of Crosstalk on Indoor WDM Optical Wireless Communication Systems. IEEE Photonics Journal, 2012, 4, 375-386.	2.0	11
45	High-speed free-space based reconfigurable card-to-card optical interconnects with broadcast capability. Optics Express, 2013, 21, 15395.	3.4	11
46	IEEE 802.15.3d-Compliant Waveforms for Terahertz Wireless Communications. Journal of Lightwave Technology, 2021, 39, 7748-7760.	4.6	11
47	High-Speed Reconfigurable Free-Space Optical Interconnects with Carrierless-Amplitude-Phase Modulation and Space-Time-Block Code. Journal of Lightwave Technology, 2019, 37, 627-633.	4.6	10
48	Remotely Powered and Reconfigured Quasi-Passive Reconfigurable Nodes for Optical Access Networks. Journal of Electrical and Computer Engineering, 2016, 2016, 1-10.	0.9	9
49	Multi-gigabit indoor optical wireless networks $\hat{a} \in$ " Feasibility and challenges. , 2016, , .		9
50	Digital Orthogonal-Filters Enhanced Spatial Modulation for High-Speed Indoor Optical Wireless Communications. Journal of Lightwave Technology, 2019, 37, 5988-5995.	4.6	9
51	Indoor gigabit optical wireless communication system for personal area networks. , 2010, , .		8
52	Ultra-broadband indoor optical wireless communication system with multimode fiber. Optics Letters, 2012, 37, 1514.	3.3	8
53	Experimental demonstration of free-space based 120  Gb/s reconfigurable card-to-card optical interconnects. Optics Letters, 2014, 39, 5717.	3.3	8
54	Bismuth Sulfide–Integrated Carbon Derived from Organic Ligands as a Superior Anode for Sodium Storage. Energy Technology, 2019, 7, 1900668.	3.8	8

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55	Indoor optical wireless communication system with continuous and simultaneous positioning. Optics Express, 2021, 29, 4582.	3.4	8
56	FPGA-based neural network accelerators for millimeter-wave radio-over-fiber systems. Optics Express, 2020, 28, 13384.	3.4	8
57	Space-Time-Coded High-Speed Reconfigurable Card-to-Card Free-Space Optical Interconnects. Journal of Optical Communications and Networking, 2017, 9, A189.	4.8	7
58	Synthesis of zwitterionic chimeric polymersomes for efficient protein loading and intracellular delivery. Polymer Chemistry, 2021, 12, 5085-5092.	3.9	7
59	Indoor optical wireless communication system with filters-enhanced generalized spatial modulation and carrierless amplitude and phase (CAP) modulation. Optics Letters, 2020, 45, 4980.	3.3	7
60	Experimental Demonstration of Full-Duplex Optical Wireless Personal Area Communication System with 16-CAP Modulation. , 2015, , .		6
61	Quasi-Passive Indoor Optical Wireless Communication Systems. IEEE Photonics Technology Letters, 2020, 32, 1373-1376.	2.5	6
62	Delay-Tolerant Indoor Optical Wireless Communication Systems Based on Attention-Augmented Recurrent Neural Network. Journal of Lightwave Technology, 2020, 38, 4632-4640.	4.6	6
63	Recurrent neural network FPGA hardware accelerator for delay-tolerant indoor optical wireless communications. Optics Express, 2021, 29, 26165.	3.4	6
64	Time-slot coding scheme for multiple access in indoor optical wireless communications. Optics Letters, 2016, 41, 5166.	3.3	6
65	Optical Wireless Communications Using Signal Space Diversity with Spatial Modulation. Photonics, 2021, 8, 468.	2.0	6
66	In-plane defect engineering on MoS2 through a novel two-phase hydrothermal synthesis. Catalysis Today, 2022, 404, 269-278.	4.4	6
67	Remote-Powered Infrared Indoor Optical Wireless Communication Systems. IEEE Photonics Technology Letters, 2022, 34, 455-458.	2.5	6
68	High-Speed Indoor Optical Wireless Communication System with a Steering Mirror Based Up-Link Receiver. , 2012, , .		5
69	Neural Networks and FPGA Hardware Accelerators for Millimeter-Wave Radio-over-Fiber Systems. , 2020, , .		5
70	Dual functionality of mixed Cu-based two-dimensional (2D) heterostructures derived from electronic waste. Green Chemistry, 2021, 23, 5511-5523.	9.0	5
71	Gigabit optical wireless communication system for indoor applications. , 2010, , .		4
72	Experimental Demonstration of Optical Wireless Indoor Localization System with Background Light Power Estimation. , 2015, , .		4

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73	Bidirectional Quasi-Passive Reconfigurable (Bi-QPAR) Remote Node for Future Optical Access Networks. Journal of Lightwave Technology, 2017, 35, 2109-2117.	4.6	4
74	Demonstration of Optical Wireless Communications using Spatial Modulation with Signal Space Diversity. , 2019, , .		4
75	Optical Wireless Communications Adopting Delay-Tolerant Repetition-Coding With Orthogonal-Filters and On-Demand Equalization. Journal of Lightwave Technology, 2020, 38, 4250-4259.	4.6	4
76	Photonics for Gigabit Wireless Networks. , 2015, , .		4
77	Dynamic Tuning of Contention Window for Optical Wireless Networks. , 2018, , .		4
78	Gigabit/s Optical Wireless Access and Indoor Networks. , 2020, , .		4
79	Neural Networks and Spatial Domain Technologies in High-Speed Optical Wireless Communications. , 2020, , .		4
80	Timing-Jitter Tolerant Nyquist Pulse for Terahertz Communications. Journal of Lightwave Technology, 2022, 40, 557-564.	4.6	4
81	Gigabit optical wireless communication system for indoor applications. , 2010, , .		3
82	Indoor gigabit full-duplex optical wireless communication system with SCM based multiple-user access. , 2011, , .		3
83	Indoor optical wireless localization system with height estimation for high-speed wireless communications in personal areas. , 2012, , .		3
84	High-speed reconfigurable card-to-card optical interconnects based on hybrid free-space and multi-mode fiber propagations. Optics Express, 2013, 21, 31166.	3.4	3
85	Free-Space 120 Gb/s Reconfigurable Card-to-Card Optical Wireless Interconnects with 16-CAP Modulation. , 2014, , .		3
86	Ultra-broadband and low-loss optical power splitter based on tapered silicon waveguides. , 2015, , .		3
87	Quasi-Passive Optical Infrastructure for Future 5C Wireless Networks: Pros and Cons. Journal of Optical Communications and Networking, 2016, 8, B111.	4.8	3
88	Optical wireless communications for high-speed in-building personal area networks. , 2016, , .		3
89	Time-Slot Coding Scheme With Adaptive Loading Function for Multiple Access in Indoor Optical Wireless Communications. Journal of Lightwave Technology, 2017, 35, 4079-4086.	4.6	3
90	Silicon Integrated Optical Isolator With Dynamic Non-Reciprocity. IEEE Photonics Technology Letters, 2017, 29, 1261-1264.	2.5	3

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91	MAC protocol for indoor optical wireless networks. IET Communications, 2019, 13, 3158-3167.	2.2	3
92	Pulse Shaping for IEEE 802.15.3d Standard Compliant Terahertz Communications. , 2020, , .		3
93	A Study on MIMO Gain of UAV-to-Ground Channel in Urban Environments. , 2021, , .		3
94	High-Speed Full-Duplex Optical Wireless Communication Systems for Indoor Applications. , 2011, , .		3
95	Space-Time Coded High-Speed Reconfigurable Free-Space Card-to-Card Optical Interconnects with Extended Range. , 2016, , .		3
96	Free-space optics for high-speed reconfigurable card-to-card optical interconnects. , 2013, , .		2
97	Experimental demonstration of space-time-coded robust high-speed indoor optical wireless communication system. , 2015, , .		2
98	$2 ilde{A}-2$ silicon integrated optical phased array for beam steering applications. , 2015, , .		2
99	Polarization insensitive vertical coupler for multi-layer silicon photonic integrated circuits. , 2015, , .		2
100	High-speed optical wireless communications for in-building personal area networks. , 2016, , .		2
101	Quasi-Passive Reconfigurable Node for 5G Mobile Optical Backhaul Networks. Journal of Lightwave Technology, 2018, 36, 5432-5441.	4.6	2
102	Risk Assessment of Power Communication Network Based on LM-BP Neural Network. Journal of Physics: Conference Series, 2019, 1187, 022063.	0.4	2
103	Low-Complexity Zero-Forcing Equalization for MIMO SC-FDMA Terahertz Communications. , 2021, , .		2
104	Experimental Demonstration of Optical Wireless Personal Area Communication System Supporting Multiple Users. , 2016, , .		2
105	Experimental Demonstration of an Indoor Localization System with Single Channel Imaging Receiver. , 2012, , .		2
106	12.5 Gbps Indoor Optical Wireless Communication System with Single Channel Imaging Receiver. , 2011, , \cdot		1
107	Experimental demonstration of a novel indoor optical wireless localization system for tracking multiple users. , 2011, , .		1
108	Indoor WDM optical wireless communication system with single channel imaging receiver. , 2012, , .		1

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109	Performance of reconfigurable free-space card-to-card optical interconnects under atmospheric turbulence. , 2012, , .		1
110	Experimental demonstration of high-speed reconfigurable card-to-card optical interconnects with broadcast capability. , 2013, , .		1
111	Experimental Demonstration of Reconfigurable Optical Interconnect based on Hybrid Free-Space and Multi-Mode Fiber Propagation. , 2013, , .		1
112	Si integrated optical phased array for efficient beam steering in optical wireless communications. , 2014, , .		1
113	High-speed optical wireless personal area communication system supporting multiple users. , 2016, , .		1
114	Short-range infrared optical wireless communications $\hat{a} \in \mathbb{C}$ Systems and integration. , 2016, , .		1
115	High-speed Optical Wireless Communications for Local Area Networks. , 2018, , .		1
116	The optimization of networking method for the system protection communication networks based on the delay analysis. Journal of Physics: Conference Series, 2019, 1187, 042001.	0.4	1
117	Filter-Enhanced Multi-User Scheme for Spatial Modulation Based Optical Wireless Communication Systems. Journal of Lightwave Technology, 2022, 40, 74-84.	4.6	1
118	Gigabit Optical Wireless Communication System for Indoor Applications. , 2010, , .		1
119	Experimental Demonstration of a Centralized Optical Wireless Indoor Localization System for High-Speed Communications in Personal Areas. , 2013, , .		1
120	Bidirectional Quasi-Passive Reconfigurable (Bi-QPAR) Node for Flexible Access Networks. , 2016, , .		1
121	80 Gb/s Free-Space Reconfigurable Optical Interconnects with Carrierless-Amplitude-Phase Modulation and Space-Time Block Code. , 2018, , .		1
122	Experimental Demonstration of a 12.5 Gb/s Indoor Optical Wireless Communication System with Silicon Integrated Photonic Circuit. , 2018, , .		1
123	Delay-Tolerant Repetition-Coding for Optical Wireless Communications. , 2019, , .		1
124	High-speed reconfigurable free-space optical interconnects with carrierless-amplitude-phase modulation and filter-enhanced spatial modulation. Optics Letters, 2020, 45, 5476.	3.3	1
125	Novel Spatial Modulation Channel Index Detection in Optical Wireless Communications with Signal Space Diversity. , 2020, , .		1
126	Experimental Demonstration of Indoor Optical Wireless Communication System with Waveform Index Modulated Uplink. Optics Letters, 0, , .	3.3	1

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127	Ultra-broadband indoor full-duplex WDM optical wireless communication with multi-mode fiber. , 2011, , .		Ο
128	Background Light Induced Noise and Its Effects on Indoor Gigabit Optical Wireless Communication Systems. , 2011, , .		0
129	High-speed indoor optical wireless communication system with single channel imaging receiver: erratum. Optics Express, 2012, 20, 25356.	3.4	Ο
130	High-speed optical wireless communication system with steering-mirror based receiver for personal area applications. , 2012, , .		0
131	Indoor optical wireless localization system for high-speed personal area networks. , 2012, , .		Ο
132	Ultra-broadband optical wireless communication system with single channel imaging receiver and multi-mode fiber for personal area networks. , 2012, , .		0
133	High-speed optical wireless communications in personal area networks. , 2014, , .		0
134	120 Gb/s reconfigurable optical interconnect based on hybrid free-space and MMF propagations. , 2014, , ,		0
135	Experimental demonstration of indoor optical wireless based 3-D localization system. , 2015, , .		Ο
136	High-speed optical wireless communications in personal areas (Invited). , 2015, , .		0
137	Full-duplex reconfigurable card-to-card optical interconnects based on hybrid free-space and multi-mode fiber propagation. , 2015, , .		Ο
138	Bi-Directional Space-Time Coded Reconfigurable Board-to-Board Free-Space Optical Interconnects. , 2016, , .		0
139	Silicon integrated optical devices. , 2017, , .		0
140	Experimental demonstration of time-slot coding scheme for multiple access in high-speed optical wireless communications with imaging receiver. , 2017, , .		0
141	High-efficiency interlayer coupler on silicon nitride. , 2017, , .		Ο
142	Four-wave-mixing based silicon integrated optical isolator with dynamic non-reciprocity. , 2017, , .		0
143	Space-time-coded reconfigurable card-to-card optical interconnects with broadcast capability. , 2017, ,		0
144	Demonstration of Indoor Optical Wireless Communications with Spatial Diversity Using Repetition-Coding and Space-Time-BlockCoding. , 2018, , .		0

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145	Ultra broadband, low loss and polarization independent silicon nitrite integrated optical power splitter. , 2018, , .		0
146	Communication Network Simulation System for System Protection Service. IOP Conference Series: Materials Science and Engineering, 2019, 490, 062077.	0.6	0
147	Operation Quality Evaluation of Power Communication Network Based on Business QOS Indicators. Journal of Physics: Conference Series, 2019, 1187, 022041.	0.4	0
148	Terahertz Pulse Shaping using Microwave-Photonic Delay Line Filters. , 2021, , .		0
149	Waveforms with High Spectral Efficiency for Terahertz Communications. , 2021, , .		0
150	Ultra-broadband Optical Wireless For Indoor Applications. , 2011, , .		0
151	Impact of Polarization State on High-Speed Indoor Optical Wireless Communication System. , 2012, , .		0
152	High-Speed Full-Duplex Optical Wireless Communication System with Single Channel Imaging Receiver for Personal Area Networks. IEICE Transactions on Electronics, 2013, E96.C, 180-186.	0.6	0
153	High-Speed Reconfigurable Card-to-Card Optical Interconnects with Multicasting Capability. , 2013, , .		0
154	Broadband Bragg Grating Mirror Based on Circular and Horizontal Slot Silicon Waveguides for TMO Mode. , 2014, , .		0
155	High Index Contrast Circular Bragg Reflector on Silicon-On-Insulator with Flat and Broadband Spectrum. , 2014, , .		0
156	Multi-Dimensional Quasi-Passive Reconfigurable (MD-QPAR) Node for Future 5G Optical Networks. , 2017, , .		0
157	A Dual-Infrared-Transmitter Optical Wireless Based Indoor User Localization System with High Accuracy. , 2017, , .		0
158	Robust and Secure Indoor Optical Wireless Communications Supporting Multiple Users. , 2018, , .		0
159	Wavelength Multiplexing and Multi-User Access in Near-Infrared Indoor Optical Wireless Communication Systems. , 2019, , 83-106.		0
160	Sensor Selection Method for Target Tracking based on Hybrid Binary Whale Optimization Algorithm in Wireless Sensor Networks. , 2019, , .		0
161	Indoor near-infrared optical wireless communications with silicon photonic integrated circuits and spatial diversity. , 2019, , .		0
162	Photonic Generation of Sub-Terahertz Signals using Self Phase Modulation in Highly Nonlinear Fibers.		0

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163	Sensing-Based SU Access Performance Study with a Four-State Markov Model in Cognitive Radios. , 2021, , .		0
164	Filter-Enhanced Spatial Modulation and Multiplexing in Indoor Optical Wireless Systems. IEEE Photonics Technology Letters, 2021, 33, 1479-1482.	2.5	0
165	Remote Power of Rural Network Nodes for Future Optical Networks. , 2021, , .		0