

Yafei Wang

List of Publications by Year in descending order

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102
papers

2,890
citations

147801

31
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48
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104
all docs

104
docs citations

104
times ranked

2614
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in luminescent liquid crystal materials: design, properties and application for linearly polarised emission. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7993-8005.	5.5	151
2	Near-Infrared Emitting Materials via Harvesting Triplet Excitons: Molecular Design, Properties, and Application in Organic Light Emitting Diodes. <i>Advanced Optical Materials</i> , 2018, 6, 1800466.	7.3	139
3	Photon-upconverting chiral liquid crystal: significantly amplified upconverted circularly polarized luminescence. <i>Chemical Science</i> , 2019, 10, 172-178.	7.4	120
4	Electric-Field-Regulated Energy Transfer in Chiral Liquid Crystals for Enhancing Upconverted Circularly Polarized Luminescence through Steering the Photonic Bandgap. <i>Advanced Materials</i> , 2020, 32, e2000820.	21.0	115
5	Dinuclear platinum complexes containing aryl-isoquinoline and oxadiazole-thiol with an efficiency of over 8.8%: in-depth investigation of the relationship between their molecular structure and near-infrared electroluminescent properties in PLEDs. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6007-6015.	5.5	76
6	Molecular Engineering through Control of Structural Deformation for Highly Efficient Ultralong Organic Phosphorescence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2058-2063.	13.8	75
7	Highly efficient blueish-green fluorescent OLEDs based on AIE liquid crystal molecules: from ingenious molecular design to multifunction materials. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3999-4008.	5.5	72
8	Exploiting racemism enhanced organic room-temperature phosphorescence to demonstrate Wallach's rule in the lighting chiral chromophores. <i>Nature Communications</i> , 2020, 11, 2145.	12.8	70
9	Electromagnetic interference shielding enhancement of poly(lactic acid)-based carbonaceous nanocomposites by poly(ethylene oxide)-assisted segregated structure: a comparative study of carbon nanotubes and graphene nanoplatelets. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 209-219.	21.1	69
10	Highly efficient near-infrared emission from binuclear cyclo-metalated platinum complexes bridged with 5-(4-octyloxyphenyl)-1,3,4-oxadiazole-2-thiol in PLEDs. <i>Organic Electronics</i> , 2012, 13, 932-937.	2.6	64
11	Boosting Efficiency of Near-Infrared Emitting Iridium(III) Phosphors by Administering Their π - π^* Conjugation Effect of Core-Shell Structure in Solution-Processed OLEDs. <i>Advanced Optical Materials</i> , 2020, 8, 2000154.	7.3	62
12	Metallomesogens based on platinum(ii) complexes: synthesis, luminescence and polarized emission. <i>Dalton Transactions</i> , 2011, 40, 5046.	3.3	60
13	Chiral Platinum-Based Metallomesogens with Highly Efficient Circularly Polarized Electroluminescence in Solution-Processed Organic Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2020, 8, 2000775.	7.3	59
14	An overview of phosphorescent metallomesogens based on platinum and iridium. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9848-9860.	5.5	50
15	Intramolecular Through-Space Charge Transfer Based TADF-Active Multifunctional Emitters for High Efficiency Solution-Processed OLED. <i>Advanced Optical Materials</i> , 2021, 9, 2100180.	7.3	49
16	π - π^* and p - π^* conjugation induced NIR-emitting iridium(III) complexes anchored by flexible side chains in a rigid dibenzo[<i>a,c</i>]phenazine moiety and their application in highly efficient solution-processable NIR-emitting devices. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7079-7088.	5.5	48
17	Significantly improved photovoltaic performance of the triangular-spiral TPA(DPP- PN) ₃ by appending planar phenanthrene units into the molecular terminals. <i>Journal of Materials Chemistry A</i> , 2015, 3, 886-893.	10.3	47
18	Near-infrared emitting pyrazole-bridged binuclear platinum complexes: Synthesis, photophysical and electroluminescent properties in PLEDs. <i>Dyes and Pigments</i> , 2016, 128, 68-74.	3.7	46

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19	Deep Blue Emitter Based on Tris(triazolo)triazine Moiety with CIE γ \approx 0.08 for Highly Efficient Solution-Processed Organic Light-Emitting Diodes Via Molecular Strategy of "Hot Excitons". <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	46
20	Efficient polymer solar cells based on a new quinoxaline derivative with fluorinated phenyl side chain. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2606-2613.	5.5	44
21	Highly Dichroic Metallomesogen of Dinuclear Platinum Complex: Synthesis and Liquid Crystal and Photophysical Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5908-5914.	3.1	43
22	Iridium(III) phosphors with rigid fused-heterocyclic chelating architectures for efficient deep-red/near-infrared emissions in polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10961-10971.	5.5	42
23	Synthesis and optophysical properties of dimeric aza-BODIPY dyes with a push-pull benzodipyrrolidone core. <i>Chemical Communications</i> , 2014, 50, 11540-11542.	4.1	41
24	Enhancing the photovoltaic properties of terpolymers containing benzo[1,2-b:4,5-b']dithiophene, phenanthro[4,5-abc]phenazine and benzo[c][1,2,5]thiadiazole by changing the substituents. <i>Journal of Materials Chemistry C</i> , 2015, 3, 6240-6248.	5.5	40
25	A universal host material with a simple structure for monochrome and white phosphorescent/TADF OLEDs. <i>Journal of Materials Chemistry C</i> , 2019, 7, 558-566.	5.5	39
26	Molecular isomeric engineering of naphthyl-quinoline-containing dinuclear platinum complexes to tune emission from deep red to near infrared. <i>Journal of Materials Chemistry C</i> , 2019, 7, 630-638.	5.5	39
27	Solution-Processed Highly Efficient Bluish-Green Thermally Activated Delayed Fluorescence Emitter Bearing an Asymmetric Oxadiazole-Difluoroboron Double Acceptor. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24339-24348.	8.0	38
28	Near-infrared emission of dinuclear iridium complexes with hole/electron transporting bridging and their monomer in solution-processed organic light-emitting diodes. <i>Dyes and Pigments</i> , 2018, 149, 315-322.	3.7	37
29	Highly-efficiency red-emitting platinum (II) complexes containing 4-diarylamino-1-phenylisoquinoline ligands in polymer light-emitting diodes: Synthesis, structure, photoelectron and electroluminescence. <i>Dyes and Pigments</i> , 2010, 86, 166-173.	3.7	36
30	A novel near-infrared-emitting cyclometalated platinum (II) complex with donor-acceptor-acceptor chromophores. <i>Dyes and Pigments</i> , 2014, 107, 146-152.	3.7	35
31	Realizing efficient red thermally activated delayed fluorescence organic light-emitting diodes using phenoxazine/phenothiazine-phenanthrene hybrids. <i>Organic Electronics</i> , 2018, 59, 32-38.	2.6	35
32	Dinuclear platinum(II) complex dominated by a zig-zag-type cyclometalated ligand: a new approach to realize high-efficiency near infrared emission. <i>Journal of Materials Chemistry C</i> , 2018, 6, 5769-5777.	5.5	33
33	Novel cyclometalated platinum (II) complex containing alkyl-trifluorene picolinic acid as emitter for single-layer white PLEDs. <i>Organic Electronics</i> , 2010, 11, 1954-1959.	2.6	30
34	Improved photovoltaic performance of a 2D-conjugated benzodithiophene-based polymer by the side chain engineering of quinoxaline. <i>Polymer Chemistry</i> , 2015, 6, 4290-4298.	3.9	29
35	Influence of integrated alkyl-chain length on the mesogenic and photophysical properties of platinum-based metallomesogens and their application for polarized white OLEDs. <i>Dyes and Pigments</i> , 2016, 133, 238-247.	3.7	29
36	Linearly polarized electroluminescence from ionic iridium complex-based metallomesogens: the effect of aliphatic-chain on their photophysical properties. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3298-3309.	5.5	29

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37	Solution-Processible Brilliantly Luminescent Eu ^{III} Complexes with Host-Featured Phosphine Oxide Ligands for Monochromic Red-Light-Emitting Diodes. <i>Chemistry - A European Journal</i> , 2014, 20, 11137-11148.	3.3	28
38	Blue and Green Phosphorescent Liquid-Crystalline Iridium Complexes with High Hole Mobility. <i>Chemistry - A European Journal</i> , 2016, 22, 1618-1621.	3.3	28
39	Synthesis and optoelectronic properties of a heterobimetallic Pt(ii)-Ir(iii) complex used as a single-component emitter in white PLEDs. <i>Dalton Transactions</i> , 2012, 41, 2972.	3.3	27
40	Luminescent metallomesogens based on platinum complex containing triphenylene unit. <i>Tetrahedron</i> , 2015, 71, 463-469.	1.9	27
41	Tuning the oxidation potential of 2-phenylpyridine-based iridium complexes to improve the performance of bluish and white OLEDs. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3738-3746.	5.5	27
42	Stimuli-responsive cyclometalated platinum complex bearing bent molecular geometry for highly efficient solution-processable OLEDs. <i>Chinese Chemical Letters</i> , 2021, 32, 493-496.	9.0	27
43	Cruciform Molecules Bearing Bis(phenylsulfonyl)benzene Moieties for High-Efficiency Solution Processable OLEDs: When Thermally Activated Delayed Fluorescence Meets Mechanochromic Luminescence. <i>Advanced Optical Materials</i> , 2020, 8, 1901021.	7.3	25
44	Synthesis and optoelectronic properties of a novel dinuclear cyclometalated platinum(II) complex containing triphenylamine-substituted indolo[3,2-b]carbazole derivative in a single-emissive-layer WPLEDs. <i>Tetrahedron</i> , 2014, 70, 1246-1251.	1.9	24
45	Achieving near-infrared emission in platinum(^{II}) complexes by using an extended donor-acceptor-type ligand. <i>Dalton Transactions</i> , 2016, 45, 5071-5080.	3.3	24
46	White emission from dinuclear cyclometalated platinum(II) complex in single-emitting layer PLEDs. <i>Tetrahedron</i> , 2011, 67, 2118-2124.	1.9	21
47	Synthesis and optoelectronic properties of novel fluorene-bridged dinuclear cyclometalated iridium (III) complex with a D-A framework in the single-emissive-layer WOLEDs. <i>Organic Electronics</i> , 2014, 15, 2942-2949.	2.6	21
48	Highly Efficient and Solution-Processed Single-Emissive-Layer Hybrid White Organic Light-Emitting Diodes with Tris(triazolo)triazine-Based Blue Thermally Activated Delayed Fluorescence Emitter. <i>Advanced Optical Materials</i> , 2021, 9, 2101518.	7.3	21
49	Synthesis, opto-physics, and electroluminescence of cyclometalated iridium (III) complex with alkyltrifluorene picolinic acid. <i>Tetrahedron</i> , 2010, 66, 1483-1488.	1.9	20
50	Engineering the Interconnecting Position of Star-Shaped Donor-Acceptor Molecules Based on Triazine, Spirofluorene, and Triphenylamine Moieties for Color Tuning from Deep Blue to Green. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2555-2563.	3.3	20
51	Enhancing the photovoltaic properties of low bandgap terpolymers based on benzodithiophene and phenanthrophenazine by introducing different second acceptor units. <i>Polymer Chemistry</i> , 2016, 7, 1747-1755.	3.9	20
52	Efficient near-infrared emitting tetradentate bis-cyclometalated platinum (IV) complexes for solution-processed polymer light-emitting diodes. <i>Dyes and Pigments</i> , 2017, 142, 457-464.	3.7	19
53	Spirotriphenylamine based star-shaped D-A molecules meeting AIE chromophore for both efficient solution-processed doped and nondoped blue organic light-emitting diodes. <i>Dyes and Pigments</i> , 2017, 143, 173-182.	3.7	19
54	Achieving NIR emission for tetradentate platinum (II) salophen complexes by attaching dual donor-accepter frameworks in the heads of salophen. <i>Dyes and Pigments</i> , 2017, 138, 100-106.	3.7	19

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55	Platinum-based metallomesogens bearing a Pt(4,6-dfppy)(acac) skeleton: synthesis, photophysical properties and polarised phosphorescence application. Dalton Transactions, 2018, 47, 13368-13377.	3.3	19
56	Dual phosphorescence emission of dinuclear platinum(II) complex incorporating cyclometallating pyrenyl-dipyridine-based ligand and its application in near-infrared solution-processed polymer light-emitting diodes. Dalton Transactions, 2017, 46, 16257-16268.	3.3	18
57	Molecular Engineering through Control of Structural Deformation for Highly Efficient Ultralong Organic Phosphorescence. Angewandte Chemie, 2021, 133, 2086-2091.	2.0	17
58	A new donor-acceptor-donor ternary copolymer pending additional diketopyrrolopyrrole unit in the side of a donor for efficient solar cells. Organic Electronics, 2013, 14, 1510-1515.	2.6	16
59	Synthesis and photovoltaic performances of benzo[1,2-b:4,5-b']dithiophene-2,3-diphenylquinoxaline copolymers pending functional groups in phenyl rings. Journal of Polymer Science Part A, 2013, 51, 1051-1057.		15
60	Reduced-bandgap triphenylamine-benzo[1,2-b:4,5-b']dithiophene copolymers pending benzothiadiazole or diketopyrrolopyrrole units for efficient polymer solar cells. Journal of Polymer Science Part A, 2013, 51, 4103-4110.	2.3	15
61	Tuning photovoltaic performance of 9,9-dioctylfluorene-2,7-bis(thiophen-2-yl)-3-biphenylthieno[3,4-b]pyrazine copolymeric derivatives by attaching additional donor units in pendant phenyl ring. Journal of Polymer Science Part A, 2012, 50, 4686-4694.	2.3	14
62	High-efficiency saturated red emission from binuclear cyclo-metalated platinum complex containing 5-(4-octyloxyphenyl)-1,3,4-oxadiazole-2-thiol ancillary ligand in PLED. Science China Chemistry, 2013, 56, 1137-1142.	8.2	14
63	A novel donor moiety 9,9-dimethyl-9,10-tetrahydro-2,10-biacridine via one-pot C-H arylation for TADF emitters and their application in highly efficient solution-processable OLEDs. Journal of Materials Chemistry C, 2020, 8, 8971-8979.	5.5	14
64	Enhanced Upconversion of Triplet Excitons for Conjugated Polymeric Thermally Activated Delayed Fluorescence Emitters by Employing an Intramolecular Sensitization Strategy. ACS Applied Materials & Interfaces, 2021, 13, 8997-9005.	8.0	14
65	Multifunctional luminophores with dual emitting cores: TADF emitters with AIE properties for efficient solution- and evaporation-processed doped and non-doped OLEDs. Chemical Engineering Journal, 2022, 431, 133249.	12.7	14
66	A Rapid Detection Method for Fungal Spores from Greenhouse Crops Based on CMOS Image Sensors and Diffraction Fingerprint Feature Processing. Journal of Fungi (Basel, Switzerland), 2022, 8, 374.	3.5	14
67	Tuning the Isomeric Fused Heteroaromatic Core of Small Donor-Acceptor Molecules to Alter Their Crystalline Nature and Enhance Photovoltaic Performance. European Journal of Organic Chemistry, 2015, 2015, 820-827.	2.4	13
68	Photon upconversion in organic nanoparticles and subsequent amplification by plasmonic silver nanowires. Nanoscale, 2018, 10, 985-991.	5.6	13
69	Biodegradation of Î-cyhalothrin through cell surface display of bacterial carboxylesterase. Chemosphere, 2022, 289, 133130.	8.2	13
70	Improving optoelectronic properties of the 2,7-polyfluorene derivatives with carbazole and oxadiazole pendants by incorporating the blue-emitting iridium complex pendants in C9 position of fluorine unit. Journal of Polymer Science Part A, 2012, 50, 149-155.	2.3	12
71	Iridium-based emitters containing pendant triphenylene moieties for bluish-green OLEDs with improved efficiency upon thermal annealing. New Journal of Chemistry, 2017, 41, 1773-1780.	2.8	12
72	Synthesis and properties of novel N,C,N terdentate skeleton based on 1,3-di(pyridin-2-yl)benzene moiety-new tricks for old dogs. Chinese Chemical Letters, 2019, 30, 1951-1954.	9.0	12

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73	Significantly improved photovoltaic performances of the dithiophene-benzothiadiazole-fluorene copolymers by incorporating carbazole units in fluorene moiety. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3874-3881.	2.3	11
74	Star-Shaped Trinuclear Cyclometalated Platinum(II) Complexes as Single-Component Emitters in White-Emitting PLEDs. <i>Chemistry - an Asian Journal</i> , 2012, 7, 2096-2101.	3.3	11
75	Dinuclear cyclometalated platinum (II) complexes: Synthesis, photophysics, and monomolecular electroluminescence. <i>Organic Electronics</i> , 2012, 13, 1646-1653.	2.6	10
76	Polyfluorene derivatives pending iridium complexes: Improved optoelectronic properties by introducing D-A units and altering pendent mode. <i>Journal of Polymer Science Part A</i> , 2012, 50, 1900-1905.	2.3	10
77	Two-Dimensional Copolymers Based on an Alkylthionaphthyl-Substituted Benzo[1,2-b:4,5-b']dithiophene for High-Efficiency Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 1506-1511.	5.1	10
78	Blue thermally activated delayed fluorescence based on trisiazolotriazine core: Synthesis, property and the application for solution-processed OLEDs. <i>Dyes and Pigments</i> , 2020, 182, 108589.	3.7	10
79	Biodegradable PLA/CNTs/Ti3C2Tx MXene nanocomposites for efficient electromagnetic interference shielding. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 25952-25962.	2.2	10
80	Synthesis, mesomorphism, photophysics and device performance of liquid-crystalline pincer complexes of gold(III). <i>Journal of Materials Chemistry C</i> , 2021, 9, 1287-1302.	5.5	10
81	Influence of alkyl chain branching point on the electron transport properties of di(perylene diimides) thin film transistors. <i>RSC Advances</i> , 2016, 6, 55946-55952.	3.6	9
82	Liquid-Crystalline Thermally Activated Delayed Fluorescence: Design, Synthesis, and Application in Solution-Processed Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15437-15447.	8.0	8
83	Synthesis and Optoelectronic Properties of a Red-Emitting Heteroleptic Platinum Complex Using Pyrazol-based Diketone Derivative as Ancillary Ligand. <i>Chinese Journal of Chemistry</i> , 2011, 29, 2057-2062.	4.9	7
84	Molecular design strategy for orange-red thermally activated delayed fluorescence emitters via intramolecular energy transfer and their application in solution processable organic light-emitting diodes. <i>Chemical Engineering Journal</i> , 2022, 428, 131691.	12.7	7
85	Comparison of background parenchymal enhancement (BPE) on contrast-enhanced cone-beam breast CT (CE-CBBCT) and breast MRI. <i>European Radiology</i> , 2022, 32, 5773-5782.	4.5	7
86	Synthesis, Photophysical and Electrochemical Characterization of the Heteroleptic Iridium Complexes with Modified Ancillary Ligand by Carrier-Transporting Groups. <i>Chinese Journal of Chemistry</i> , 2010, 28, 2455-2462.	4.9	6
87	Starburst Triphenylamine-Based Donor-Acceptor Type Small Molecules for Solution-Processed Organic Solar Cells. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 799-805.	2.4	6
88	Polymer light-emitting devices based on europium(III) complex with 11-bromo-dipyrido[3,2-a:2',3'-c]phenazine. <i>Science China Chemistry</i> , 2015, 58, 1152-1158.	8.2	5
89	Evaluation and characterization of anti-estrogenic and anti-androgenic activities in soil samples along the Second Songhua River, China. <i>Environmental Monitoring and Assessment</i> , 2015, 187, 724.	2.7	5
90	Effect of a small amount of poly(ethylene oxide) on crystal polymorphism of poly(L-lactic acid). <i>Polymer Bulletin</i> , 2021, 78, 6837-6846.	3.3	5

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91	Asymmetric sky-blue thermally-activated delayed fluorescence emitters bearing tris(triazolo)triazine moiety for solution-processable organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4837-4844.	5.5	5
92	Polymorphous Luminescent Materials Based on π - π^* -Shaped Molecules Bearing 4,7-Diphenylbenzo[<i>c</i>][1,2,5]thiadiazole Skeletons: Effect of Substituents on the Photophysical Properties. <i>Chemistry - A European Journal</i> , 2019, 25, 15401-15410.	3.3	4
93	Enhancing the efficiency of near-infrared iridium (III) complexes-based OLEDs by auxiliary ligand functionalization. <i>Synthetic Metals</i> , 2021, 281, 116917.	3.9	4
94	Synthesis and photovoltaic performance of N-dioctylmethyl-2,7-carbazole-alt-5,7-bis(thiophen-2-yl)-2,3-biphenylthieno[3,4- <i>b</i>] pyrazine copolymeric derivatives appending various donor units in phenyl moieties. <i>Science China Chemistry</i> , 2015, 58, 301-308.	8.2	3
95	Broadband spectra with fluorescence and phosphorescence dual emission from bichromophoric platinum metallomesogens containing a 6,12-dihydro-indeno[1,2- <i>b</i>]fluorene linkage. <i>RSC Advances</i> , 2016, 6, 45864-45872.	3.6	3
96	Structure and properties of Camphor silk. <i>Journal of the Textile Institute</i> , 2018, 109, 1186-1192.	1.9	3
97	Highly efficient solution-processed white OLEDs via TADF host-sensitized dinuclear platinum (III) complex. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	3
98	Evaluation and characterization of thyroid-disrupting activities in soil samples along the Second Songhua River, China. <i>Ecotoxicology and Environmental Safety</i> , 2016, 133, 475-480.	6.0	2
99	Two π -Shaped Donor-Acceptor Small Molecules Based on 4,9-Di(thiophen-2-yl)naphtho[2,3- <i>b</i>]thiophene for Solution-Processed Organic Solar Cells. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 5127-5135.	2.4	2
100	Synthesis, Mesomorphism, Photophysics, and Device Properties of Liquid-Crystalline Pincer Complexes of Gold(III) Containing Semiperfluorinated Chains. <i>ACS Omega</i> , 2022, 7, 24903-24917.	3.5	1
101	P.1: Tuning Color-Correlated Temperature and Color Rendering Index of Phosphorescent White Polymer Light-Emitting Diodes: Towards Healthy Solid-State Lighting. <i>Digest of Technical Papers SID International Symposium</i> , 2018, 49, 731-733.	0.3	0
102	Performance Analysis of MEC Based on NOMA under Imperfect CSI with Eavesdropper. <i>Wireless Communications and Mobile Computing</i> , 2021, 2021, 1-10.	1.2	0