Ritu Srivastava

List of Publications by Year
in descending order

131 papers	1,952 citations	279798 23 h-index	345221 36 g-index
134 all docs	134 docs citations	134 times ranked	2814 citing authors

#	Article	IF	Citations
1	Efficiency enhancement of organic light emitting diode via surface energy transfer between exciton and surface plasmon. Organic Electronics, 2012, 13, 159-165.	2.6	71
2	Large Area Fabrication of Semiconducting Phosphorene by Langmuir-Blodgett Assembly. Scientific Reports, 2016, 6, 34095.	3.3	67
3	Functionalized Molybdenum Disulfide Nanosheets for 0Dâ€“2D Hybrid Nanostructures: Photoinduced Charge Transfer and Enhanced Photoresponse. Journal of Physical Chemistry Letters, 2017, 8, 1729-1738.	4.6	67
4	Carbon nanotube-based organic light emitting diodes. Nanoscale, 2009, 1, 317.	5.6	65
5	Surface plasmon enhanced blue organic light emitting diode with nearly 100% fluorescence efficiency. Organic Electronics, 2012, 13, 1750-1755.	2.6	61
6	Engineering fused coumarin dyes: a molecular level understanding of aggregation quenching and tuning electroluminescence via alkyl chain substitution. Journal of Materials Chemistry C, 2014, 2, 6637.	5.5	53
7	Synthesis and characterization of 9,10-bis(2-phenyl-1,3,4-oxadiazole) derivatives of anthracene: Efficient n-type emitter for organic light-emitting diodes. Journal of Materials Chemistry, 2009, 19, 6172.	6.7	49
8	Exploring an Emissive Charge Transfer Process in Zero-Twist Donorâ€“Acceptor Molecular Design as a Dual-State Emitter. Journal of Physical Chemistry C, 2016, 120, 12723-12733.	3.1	46
9	High-yield synthesis and liquid-exfoliation of two-dimensional belt-like hafnium disulphide. Nano Research, 2018, 11, 343-353.	10.4	46
10	Degradation of organic light emitting diode: Heat related issues and solutions. Synthetic Metals, 2016, 216, 40-50.	3.9	41
11	Colloidal lead-free Cs2AgBiBr6 double perovskite nanocrystals: Synthesis, uniform thin-film fabrication, and application in solution-processed solar cells. Nano Research, 2021, 14, 1126-1134.	10.4	39
12	Synthesis and characterization of novel 2,5-diphenyl-1,3,4-oxadiazole derivatives of anthracene and its application as electron transporting blue emitters in OLEDs. Synthetic Metals, 2011, 161, 869-880.	3.9	37
13	Synthesis and characterization of 5,7-dimethyl-8-hydroxyquinoline and 2-(2-pyridyl)benzimidazole complexes of zinc(II) for optoelectronic application. Optical Materials, 2011, 34, 221-227.	3.6	36
14	Enhancement of light extraction efficiency of organic light emitting diodes using nanostructured indium tin oxide. Optics Letters, 2012, 37, 575.	3.3	36
15	Interactions of titania based nanoparticles with silica and green-tea: Photo-degradation and -luminescence. Journal of Colloid and Interface Science, 2016, 475, 82-95.	9.4	36
16	Implementation of anti-reflection coating to enhance light out-coupling in organic light-emitting devices. Journal of Luminescence, 2008, 128, 525-530.	3.1	35
17	Charge transport and microstructure in PFO:MEH-PPV polymer blend thin films. Synthetic Metals, 2010, 160, 1740-1744.	3.9	35
18	Functionalized 2D-MoS₂-Incorporated Polymer Ternary Solar Cells: Role of Nanosheet-Induced Long-Range Ordering of Polymer Chains on Charge Transport. ACS Applied Materials & Interfaces, 2017, 9, 34111-34121.	8.0	34

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19	Energy transfer process between exciton and surface plasmon: Complete transition from Forster to surface energy transfer. Applied Physics Letters, 2013, 102, 203304.	3.3	30
20	A new zincâ€“Schiff base complex as an electroluminescent material. Journal of Organic Semiconductors, 2014, 2, 15-20.	1.2	30
21	White organic light-emitting diodes based on blue fluorescent bis(2-(2-hydroxyphenyl)benzoxazolate)zinc [Zn(hpb)2] doped with DCM dye. Synthetic Metals, 2009, 159, 234-237.	3.9	28
22	White organic light emitting diodes based on DCM dye sandwiched in 2-methyl-8-hydroxyquinolinolatolithium. Journal of Luminescence, 2010, 130, 1516-1520.	3.1	26
23	Incorporation of liquid crystalline triphenylene derivative in bulk heterojunction solar cell with molybdenum oxide as buffer layer for improved efficiency. Liquid Crystals, 2016, 43, 928-936.	2.2	25
24	Frequency dependent electrical transport properties of 4,4â€²,4â€³-tris(N-3-methylphenyl-N-phenylamine)triphenylamine by impedance spectroscopy. Synthetic Metals, 2010, 160, 1422-1426.	3.9	24
25	Mg-doped ZnO nanostructures for efficient Organic Light Emitting Diode. Vacuum, 2019, 166, 370-376.	3.5	24
26	Li-doped ZnO nanostructures for the organic light emitting diode application. Vacuum, 2017, 146, 462-467.	3.5	23
27	Study of 2,3,5,6-tetrafluoro-7,7â€²,8,8â€²- tetracyano quinodimethane diffusion in organic light emitting diodes using secondary ion mass spectroscopy. RSC Advances, 2013, 3, 24553.	3.6	22
28	New Organic Thin-Film Encapsulation for Organic Light Emitting Diodes. Journal of Encapsulation and Adsorption Sciences, 2011, 01, 23-28.	0.3	21
29	n-Type ternary zinc complexes: Synthesis, physicochemical properties and organic light emitting diodes application. Journal of Organometallic Chemistry, 2014, 756, 38-46.	1.8	20
30	Characterization and luminescent properties of zincâ€“Schiff base complexes for organic white light emitting devices. Cogent Chemistry, 2015, 1, 1079291.	2.5	20
31	Analysis of Blockade in Charge Transport Across Polymeric Heterojunctions as a Function of Thermal Annealing: A Different Perspective. Journal of Electronic Materials, 2017, 46, 1235-1247.	2.2	20
32	Synthesis and electroluminescence properties of zinc(2,2â€² bipyridine)8-hydroxyquinoline. Materials Letters, 2008, 62, 2561-2563.	2.6	19
33	White organic electroluminescence from fluorescent bis (2-(2-hydroxyphenyl) benzoxazolate)zinc doped with phosphorescent material. Journal of Luminescence, 2010, 130, 249-253.	3.1	19
34	Effect of doping of cesium carbonate on electron transport in Tris(8-hydroxyquinolinato) aluminum. Organic Electronics, 2013, 14, 1391-1395.	2.6	19
35	Elucidation on Joule heating and its consequences on the performance of organic light emitting diodes. Journal of Applied Physics, 2014, 115, 034518.	2.5	19
36	Review on Optical and Electrical Properties of Conducting Polymers. Indian Journal of Materials Science, 2016, 2016, 1-8.	0.6	19

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37	Preparation and photoluminescence enhancement in terbium(III) ternary complexes with Î²-diketone and monodentate auxiliary ligands. Cogent Chemistry, 2016, 2, 1134993.	2.5	19
38	Spatial coherence properties of electroluminescence from Alq3-based organic light emitting diodes. Applied Physics Letters, 2006, 89, 061124.	3.3	18
39	Effect of doping of 8-hydroxyquinolinatolithium on electron transport in tris(8-hydroxyquinolinato)aluminum. Journal of Applied Physics, 2011, 109, 114511.	2.5	18
40	Electroluminescence from hybrid organicâ€“inorganic LEDs based on thermally evaporated CdS thin films. Journal of Luminescence, 2012, 132, 330-336.	3.1	18
41	Enhanced performance of organic photovoltaic devices by incorporation of tetrapodâ€shaped CdSe nanocrystals in polymerâ€“fullerene systems. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 785-790.	1.8	18
42	Design and synthesis of novel anthracene derivatives as n-type emitters for electroluminescent devices: a combined experimental and DFT study. Photochemical and Photobiological Sciences, 2014, 13, 342-357.	2.9	18
43	Mixed bismuthâ€antimonyâ€based double perovskite nanocrystals for solar cell application. International Journal of Energy Research, 2021, 45, 16769-16780.	4.5	18
44	Comparison of structure and yield of multiwall carbon nanotubes produced by the CVD technique and a water assisted method. Physica B: Condensed Matter, 2010, 405, 1745-1749.	2.7	17
45	Study of fluorescence quenching due to 2, 3, 5, 6-tetrafluoro-7, 7â€², 8, 8â€²-tetracyano quinodimethane and its solid state diffusion analysis using photoluminescence spectroscopy. Journal of Chemical Physics, 2015, 142, 054707.	3.0	17
46	Application of 2D-MoO₃ nano-flakes in organic light emitting diodes: effect of semiconductor to metal transition with irradiation. RSC Advances, 2015, 5, 8397-8403.	3.6	16
47	Study of enhancement in the dielectric and electrical properties of WO3-doped LiF nano-composite. Journal of Materials Science, 2018, 53, 4199-4208.	3.7	16
48	White electroluminescence from stacked organic light emitting diode. Synthetic Metals, 2010, 160, 756-761.	3.9	15
49	Low electrical percolation threshold and PL quenching in solution-blended MWNTâ€“MEH PPV nanocomposites. Journal of Experimental Nanoscience, 2010, 5, 412-426.	2.4	15
50	Dependence of charge carrier mobility of 4,4â€²,4â€³-tris(N-3-methylphenyl-N-phenylamino)triphenylamine on doping concentration of tetrafluoro-tetracyano-quinodimethane. Organic Electronics, 2012, 13, 394-398.	2.6	15
51	Exciton quenching by diffusion of 2,3,5,6-tetrafluoro-7,7â€™,8,8â€™-tetra cyano quino dimethane and its consequences on joule heating and lifetime of organic light-emitting diodes. Optics Letters, 2013, 38, 3854.	3.3	15
52	Enhanced carrier transport in tris(8-hydroxyquinolinate) aluminum by titanyl phthalocyanine doping. RSC Advances, 2014, 4, 51256-51261.	3.6	15
53	Investigation of the Photophysical and Electrical Characteristics of CuInS2 QDs/SWCNT Hybrid Nanostructure. Journal of Physical Chemistry C, 2014, 118, 11409-11416.	3.1	15
54	Studies on morphological and optoelectronic properties of MEH-CN-PPV:TiO2 nanocomposites. Materials Chemistry and Physics, 2012, 133, 317-323.	4.0	14

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55	Study of shifting of recombination zone in multi-emissive layer organic light emitting devices and its effect on color stability. Journal of Luminescence, 2013, 136, 249-254.	3.1	14
56	Optoelectronic characterization of zinc complexes for display device applications. Journal of Materials Science: Materials in Electronics, 2015, 26, 6762-6768.	2.2	13
57	Ternary zinc complexes as electron transport and electroluminescent materials. Journal of Organometallic Chemistry, 2013, 740, 116-122.	1.8	12
58	Light outcoupling efficiency enhancement in organic light emitting diodes using an organic scattering layer. Physica Status Solidi - Rapid Research Letters, 2014, 8, 81-85.	2.4	12
59	Multilayer thin film encapsulation for organic light emitting diodes. RSC Advances, 2014, 4, 10808-10814.	3.6	12
60	Low voltage organic light emitting diode using pâ€“iâ€“n structure. Synthetic Metals, 2010, 160, 1126-1129.	3.9	11
61	Change in conformation of polymer PFO on addition of multiwall carbon nanotubes. Nanoscale, 2010, 2, 1171.	5.6	11
62	Percolation dominated electron transport in Tetracyanoquinodimethane mixed 4,7-diphenyl-1,10-phenanthroline thin films. Organic Electronics, 2012, 13, 3074-3078.	2.6	11
63	Synthesis, Characterization, and Electroluminescent Characteristics of Mixed-Ligand Zinc(II) Complexes. Journal of Electronic Materials, 2013, 42, 973-978.	2.2	11
64	Charge transport study of P3HT blended MoS2. Vacuum, 2017, 146, 474-477.	3.5	11
65	Sizeâ€Tunable Synthesis of Colloidal Silver Sulfide Nanocrystals for Solutionâ€Processed Photovoltaic Applications. ChemistrySelect, 2018, 3, 5620-5629.	1.5	11
66	Carbon Quantum Dot as Electron Transporting Layer in Organic Light Emitting Diode. ChemistrySelect, 2019, 4, 7450-7454.	1.5	11
67	Dipolar alignment and consequent enhanced charge transport in poly (9, 9â€² di octyl fluorene)-2, 7-ylene ethylnylene. Journal of Applied Physics, 2011, 109, .	2.5	10
68	Surface modified ZnO nanoparticles: structure, photophysics, and its optoelectronic application. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	10
69	Study of injection and transport properties of metal/organic interface using HAT-CN molecules as hole injection layer. Vacuum, 2017, 146, 530-536.	3.5	10
70	A Facile Liquidâ€Phase, Solventâ€Dependent Exfoliation of Large Scale MoS₂ Nanosheets and Study of Their Photoconductive Behaviour for UVâ€Photodetector Application. ChemistrySelect, 2021, 6, 11285-11292.	1.5	10
71	Charge transport studies in thermally evaporated 2,2â€²,7,7â€²-tetrakis-(N,N-di-4-methoxyphenylamino)-9,9â€²-spirobifluorene (spiro-MeOTAD) thin film. Synthetic Metals, 2011, 161, 828-832.	3.9	9
72	MORPHOLOGICAL, OPTICAL AND ELECTRICAL CHARACTERIZATION OF SOLUTION PROCESSED MWNTâ€“PEDOT:PSS NANOCOMPOSITE. International Journal of Modern Physics B, 2011, 25, 2543-2556.	2.0	9

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73	Effect of reduction of trap charge carrier density in organic field effect transistors by surface treatment of dielectric layer. Journal of Applied Physics, 2013, 114, .	2.5	9
74	Role of reduced pi-pi stacking in the charge transport in polyfluorene. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 212, 62-70.	3.5	9
75	Electric field and temperature dependence of hole mobility in electroluminescent PDY 132 polymer thin films. Solid State Communications, 2010, 150, 581-584.	1.9	8
76	Improved light extraction efficiency with angle independent electroluminescence spectrum in nano-phosphor coated white organic light emitting diodes. Synthetic Metals, 2011, 161, 1172-1176.	3.9	8
77	Bulk heterojunction solar cells based on self-assembling disc-shaped liquid crystalline material. Liquid Crystals, 0, , 1-9.	2.2	8
78	A vertically stacked phosphorescent multilayer organic light emitting transistor. RSC Advances, 2016, 6, 90873-90877.	3.6	8
79	A Facile Liquid Phase Exfoliation of Tungsten Diselenide using Dimethyl Sulfoxide as Polar Aprotic Solvent to Produce Highâ€quality Nanosheets. ChemNanoMat, 2021, 7, 328-333.	2.8	8
80	Metal-CH₃NH₃PbI₃-Metal Tunnel FET. IEEE Transactions on Electron Devices, 2018, 65, 1902-1909.	3.0	7
81	Trap Assisted Carrier Recombination in 4-(Dicyanomethylene)-2-methyl-6-(4-dimethylaminostyryl)-4H-pyran Doped Bis[2-(2-hydroxyphenyl)bezoxazolate] Zinc. Japanese Journal of Applied Physics, 2008, 47, 3408-3411.	1.5	6
82	Simultaneous Synthesis of Multi-Walled Carbon Nanotubes, Graphitic Rod-Like Structures and Rose Petal-Like Structures via a One-Step Water-Assisted Method. Fullerenes Nanotubes and Carbon Nanostructures, 2011, 19, 343-352.	2.1	6
83	Novel organic electron injection layer for efficient and stable organic light emitting diodes. Journal of Luminescence, 2014, 146, 53-56.	3.1	6
84	Low voltage organic permeable base N-type transistor. Applied Physics Letters, 2016, 109, .	3.3	6
85	Perovskite Resonant Tunneling FET with Sequential Negative Differential Resistance Peaks. ACS Applied Electronic Materials, 2019, 1, 735-744.	4.3	6
86	Effect of oblique angle deposition of Î±-naphthylphenylbiphenyl diamine on the performance of organic light-emitting diodes. Journal Physics D: Applied Physics, 2008, 41, 015102.	2.8	5
87	Outcoupling efficiency enhancement in organic light emitting diodes via nano-structured indium tin oxide and nano-phosphors. Organic Electronics, 2012, 13, 2879-2886.	2.6	5
88	Interface modified thermally stable hole transporting layer for efficient organic light emitting diodes. Journal of Applied Physics, 2014, 116, .	2.5	5
89	Chemical structure dependent electron transport in 9,10-bis(2-phenyl-1,3,4-oxadiazole) derivatives of anthracene. RSC Advances, 2014, 4, 12206.	3.6	5
90	Tunable field effect properties in solid state and flexible graphene electronics on composite high â€“ low k dielectric. Carbon, 2016, 99, 579-584.	10.3	5

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91	Modeling of Organic Permeable Base Transistor Based on Inverse of Transistor Efficiency (${I}_{C}$ /) Tj ETQq1 1 0.784314 rgBT /Ov	3.0	5
92	Studies on organic lightâ€emitting diodes based on rubreneâ€doped zinc quinolate. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1660-1663.	1.8	4
93	Field, temperature and thickness dependent electron transport in 5,5â€²-(2,6-di-tert-butylanthracene-9,10-diyl)bis(2-p-tolyl-1,3,4-oxadiazole). Synthetic Metals, 2010, 160, 774-778.	3.9	4
94	Bulk heterojunction solar cells made from carbazole copolymer and fullerene derivative with an inserted layer of discotic material with improved efficiency. Liquid Crystals, 0, , 1-8.	2.2	4
95	Surface plasmon enhanced organic solar cells using thermally deposited Au nanoparticles. AIP Conference Proceedings, 2018, , .	0.4	4
96	WO3-doped LiF as gate dielectric for p-channel vertical organic field effect transistor application. Thin Solid Films, 2018, 666, 156-160.	1.8	4
97	A study on chemical exfoliation and structural and optical properties of two-dimensional layered titanium diselenide. Dalton Transactions, 2021, 50, 3894-3903.	3.3	4
98	Ethylcelluloseâ€Encapsulated Inorganic Lead Halide Perovskite Nanoparticles for Printing and Optoelectronic Applications. Particle and Particle Systems Characterization, 2022, 39, .	2.3	4
99	Thermally activated field assisted carrier generation and transport in N,Nâ€²-di-[(1-naphthalenyl)-N,Nâ€²-diphenyl]-(1,1â€² biphenyl)-4,4â€²-diamine doped with 2,3,5,6-tetrafluoro-7,7â€²,8,8â€²-tetracyanoquinodimethane. Journal of Applied Physics, 2008, 104, 124509.	2.5	3
100	Organic Light Emitting Diodes for White Light Emission. , 0, , .		3
101	SYNTHESIS AND CHARACTERIZATION OF CdS NANOCRYSTALLITES DISPERSED IN POLYMER MATRIX. Nano, 2010, 05, 97-102.	1.0	3
102	Packing directed beneficial role of 3-D rigid alicyclic arms on the templated molecular aggregation problem. RSC Advances, 2015, 5, 61249-61257.	3.6	3
103	Conductive cooling in white organic light emitting diode for enhanced efficiency and life time. Applied Physics Letters, 2015, 106, .	3.3	3
104	D-A conjugated polymers containing substituted thiophene, 1,3,4-oxadiazole and non-conjugation linkers: Synthesis and study of optical and electrochemical properties. Journal of Chemical Sciences, 2016, 128, 1423-1433.	1.5	3
105	Benzoyl Halide as Alternative Precursor for Synthesis of Lead Free Double Perovskite Cs₃Bi₂Br₉ Nanocrystals. Journal of Nanoscience and Nanotechnology, 2020, 20, 3802-3808.	0.9	3
106	Charge Transport Study of 2,2',7,7'-Tetrakis(N,N-di-4-methoxyphenyl amino)-9,9'-spirobifluorene Using Impedance Spectroscopy. Japanese Journal of Applied Physics, 2011, 50, 061601.	1.5	2
107	Quinolinylâ€moietyâ€containing 3â€esterâ€substituted polythiophenes showing fluorescence efficiency. Polymer International, 2011, 60, 1030-1038.	3.1	2
108	p-Type doping of tetrafluorotetracynoquinodimethane (F4TCNQ) in poly(para-phenylene vinylene) (PPV) derivative â€œSuper Yellowâ€•(SY). RSC Advances, 2014, 4, 47899-47905.	3.6	2

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109	Improved Performance of Organic LEDs with Modified Metal-Organic Interface. IOP Conference Series: Materials Science and Engineering, 2015, 73, 012046.	0.6	2
110	Nickel nanoparticles-super yellow (PDY-132) nanoblends for organic light emitting devices. Vacuum, 2019, 166, 351-355.	3.5	2
111	A study on structural, optical, and electrical characteristics of perovskite CsPbBr₃ QD/2D-TiSe₂ nanosheet based nanocomposites for optoelectronic applications. Dalton Transactions, 2022, 51, 4104-4112.	3.3	2
112	Enhancement of light out-coupling efficiency of organic light-emitting devices by anti-reflection coating technique. , 2007, , .		1
113	Charge transport study in bis{2-(2-hydroxyphenyl) benzoxazolate} zinc [Zn(hpb)₂]. Journal Physics D: Applied Physics, 2008, 41, 195109.	2.8	1
114	White electroluminescence from hybrid organic inorganic LEDs based on thermally evaporated nanocrystals. Europhysics Letters, 2012, 99, 17003.	2.0	1
115	Synthesis, characterization, and optoelectronic properties of heteroleptic iridium complexes containing substituted 1,3,4-oxadiazole and Î²-diketone as ligands. Journal of Coordination Chemistry, 2012, 65, 453-462.	2.2	1
116	Effect of doping on the electron transport in polyfluorene. AIP Conference Proceedings, 2016, , .	0.4	1
117	Temperature and dopant dependence of hole transport in a green light emitting polyspirobifluorene polymer. Optical Materials, 2019, 95, 109208.	3.6	1
118	Analysing the TIPSPâ€based VOFET through transistor efficiency (g m /I D). IET Circuits, Devices and Systems, 2019, 13, 139-144.	1.4	1
119	Surface and edge emission in organic light emitting devices. Optics Communications, 2006, 267, 416-421.	2.1	0
120	Fabrication of organic light-emitting devices by oblique angle deposition technique. , 2007, , .		0
121	Improved efficiency of Organic Light Emitting Diodes by doping of hole transport layer. , 2007, , .		0
122	Effect of sublimation on performance of CuPc: PTCDA bilayer organic solar cell. , 2007, , .		0
123	Erratum to â€œComparison of structure and yield of multiwall carbon nanotubes produced by the CVD technique and a water assisted methodâ€•[Physica B 405 (2010) 1745]. Physica B: Condensed Matter, 2010, 405, 3514.	2.7	0
124	Multi emissive layer type white organic light emitting diode based on zinc metal complexes. , 2012, , .		0
125	White electroluminescence from hybrid organic inorganic LEDs based on thermally evaporated nanocrystals. Europhysics Letters, 2012, 99, 49903.	2.0	0
126	Impedance spectroscopy study of 2, 2, 7, 7â€™ â€“tetra kis-(N,N-di-4-methoxy phenyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (ami	0.4	0

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127	Effect of n-type doping on the electron transport of polyfluorene. AIP Conference Proceedings, 2018, , .	0.4	0
128	Study of contact resistance with PtPc buffer layer in vertical organic field-effect transistor. Engineering Research Express, 2019, 1, 015015.	1.6	0
129	Improved Grain distribution in polymer thin films after electric polarization. IOP Conference Series: Materials Science and Engineering, 2019, 577, 012082.	0.6	0
130	A cost-effective liquid phase exfoliation process for large 2D-MoS2 nanosheets and its application in FET. AIP Conference Proceedings, 2020, , .	0.4	0
131	Preparation and Optoelectronic Properties of Iridium (III) Complexes Based on 1,3,4-Oxadiazole and Î²-diketones. Springer Proceedings in Physics, 2020, , 43-51.	0.2	0