

Shiv Govind Singh

List of Publications by Year in descending order

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136
papers

2,521
citations

185998

28
h-index

253896

43
g-index

137
all docs

137
docs citations

137
times ranked

2793
citing authors

#	ARTICLE	IF	CITATIONS
1	Cu-Cu diffusion bonding enhancement at low temperature by surface passivation using self-assembled monolayer of alkane-thiol. Applied Physics Letters, 2009, 95, .	1.5	147
2	Recent advances in biosensors for diagnosis and detection of sepsis: A comprehensive review. Biosensors and Bioelectronics, 2019, 124-125, 205-215.	5.3	108
3	Chemiresistive Sensor Based on Zinc Oxide Nanoflakes for CO ₂ Detection. ACS Applied Nano Materials, 2019, 2, 700-706.	2.4	94
4	Electrospun manganese (III) oxide nanofiber based electrochemical DNA-nanobiosensor for zeptomolar detection of dengue consensus primer. Biosensors and Bioelectronics, 2017, 90, 378-387.	5.3	89
5	One step biofunctionalized electrospun multiwalled carbon nanotubes embedded zinc oxide nanowire interface for highly sensitive detection of carcinoma antigen-125. Biosensors and Bioelectronics, 2017, 88, 144-152.	5.3	84
6	Kv1.3 inhibition as a potential microglia-targeted therapy for Alzheimer's disease: preclinical proof of concept. Brain, 2018, 141, 596-612.	3.7	79
7	A highly sensitive self assembled monolayer modified copper doped zinc oxide nanofiber interface for detection of Plasmodium falciparum histidine-rich protein-2: Targeted towards rapid, early diagnosis of malaria. Biosensors and Bioelectronics, 2016, 80, 39-46.	5.3	73
8	Electrospun CNT embedded ZnO nanofiber based biosensor for electrochemical detection of Atrazine: a step closure to single molecule detection. Microsystems and Nanoengineering, 2020, 6, 3.	3.4	61
9	A multi-walled carbon nanotube-zinc oxide nanofiber based flexible chemiresistive biosensor for malaria biomarker detection. Analyst, The, 2017, 142, 2128-2135.	1.7	53
10	Highly sensitive and ultra-fast responsive ammonia gas sensor based on 2D ZnO nanoflakes. Materials Science for Energy Technologies, 2020, 3, 91-96.	1.0	51
11	Label-Free Electrochemical Detection of DNA Hybridization: A Method for COVID-19 Diagnosis. , 2020, 5, 205-209.		51
12	New Positive Ca ²⁺ -Activated K ⁺ Channel Gating Modulators with Selectivity for K _{Ca} 3.1. Molecular Pharmacology, 2014, 86, 342-357.	1.0	50
13	Label free, electrochemical detection of atrazine using electrospun Mn ₂ O ₃ nanofibers: Towards ultrasensitive small molecule detection. Sensors and Actuators B: Chemical, 2019, 285, 317-325.	4.0	50
14	Kv1.3 modulates neuroinflammation and neurodegeneration in Parkinson's disease. Journal of Clinical Investigation, 2020, 130, 4195-4212.	3.9	50
15	Ultra-thin Ti passivation mediated breakthrough in high quality Cu-Cu bonding at low temperature and pressure. Materials Letters, 2016, 169, 269-272.	1.3	45
16	Electrospun tin (IV) oxide nanofiber based electrochemical sensor for ultra-sensitive and selective detection of atrazine in water at trace levels. Biosensors and Bioelectronics, 2019, 141, 111441.	5.3	45
17	Demonstration of sub 150 Å°C Cu-Cu thermocompression bonding for 3D IC applications, utilizing an ultra-thin layer of Manganin alloy as an effective surface passivation layer. Materials Letters, 2017, 194, 86-89.	1.3	40
18	Structural Insights into the Atomistic Mechanisms of Action of Small Molecule Inhibitors Targeting the K _{Ca} 3.1 Channel Pore. Molecular Pharmacology, 2017, 91, 392-402.	1.0	39

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19	Solvent-free fabrication of a room temperature ammonia gas sensor by frictional deposition of a conducting polymer on paper. <i>Organic Electronics</i> , 2019, 68, 108-112.	1.4	38
20	Liquid flow through a diverging microchannel. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 53-67.	1.0	36
21	Interface and Reliability Analysis of Au-Passivated Cu-Cu Fine-Pitch Thermocompression Bonding for 3-D IC Applications. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2019, 9, 1227-1234.	1.4	36
22	Ambient Temperature-Induced Device Self-Heating Effects on Multi-Fin Si n-FinFET Performance. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 2721-2728.	1.6	35
23	Susceptibility of larval zebrafish to the seizurogenic activity of GABA type A receptor antagonists. <i>NeuroToxicology</i> , 2020, 76, 220-234.	1.4	35
24	Diisopropylfluorophosphate Impairs the Transport of Membrane-Bound Organelles in Rat Cortical Axons. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016, 356, 645-655.	1.3	34
25	An ultrasensitive label free nanobiosensor platform for the detection of cardiac biomarkers. <i>Biomedical Microdevices</i> , 2016, 18, 111.	1.4	32
26	A comprehensive approach for milk adulteration detection using inherent bio-physical properties as "Universal Markers": Towards a miniaturized adulteration detection platform. <i>Food Chemistry</i> , 2017, 217, 756-765.	4.2	32
27	Chemiresistive DNA hybridization sensor with electrospun nanofibers: A method to minimize inter-device variability. <i>Biosensors and Bioelectronics</i> , 2019, 133, 24-31.	5.3	32
28	Graphene Doped Mn ₂ O ₃ Nanofibers as a Facile Electroanalytical DNA Point Mutation Detection Platform for Early Diagnosis of Breast/Ovarian Cancer. <i>Electroanalysis</i> , 2018, 30, 2110-2120.	1.5	31
29	Piezoelectric Micromachined Ultrasonic Transducer Using Silk Piezoelectric Thin Film. <i>IEEE Electron Device Letters</i> , 2018, 39, 749-752.	2.2	30
30	Oxidation Resistive, CMOS Compatible Copper-Based Alloy Ultrathin Films as a Superior Passivation Mechanism for Achieving 150 °C Cu-Cu Wafer on Wafer Thermocompression Bonding. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 1239-1245.	1.6	29
31	Two-Phase Flow Pressure Drop Characteristics in Trapezoidal Silicon Microchannels. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2009, 32, 887-900.	1.4	28
32	Leveraging Innate Piezoelectricity of Ultra-Smooth Silk Thin Films for Flexible and Wearable Sensor Applications. <i>IEEE Sensors Journal</i> , 2017, 17, 8306-8313.	2.4	28
33	Single-Cell Profiling Identifies Key Pathways Expressed by iPSCs Cultured in Different Commercial Media. <i>IScience</i> , 2018, 7, 30-39.	1.9	28
34	Label free electrochemical detection of cardiac biomarker troponin T using ZnSnO ₃ perovskite nanomaterials. <i>Analytical Methods</i> , 2019, 11, 744-751.	1.3	27
35	Facile non thermal plasma based desorption of self assembled monolayers for achieving low temperature and low pressure Cu-Cu thermo-compression bonding. <i>RSC Advances</i> , 2015, 5, 103643-103648.	1.7	26
36	Discrimination of gases with a single chemiresistive multi-gas sensor using temperature sweeping and machine learning. <i>Sensors and Actuators B: Chemical</i> , 2021, 348, 130725.	4.0	26

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37	In Situ Impact Analysis of Very High Heat Flux Transients on Nonlinear p-n Diode Characteristics and Mitigation Using On-Chip Single- and Two-Phase Microfluidics. <i>Journal of Microelectromechanical Systems</i> , 2009, 18, 1208-1219.	1.7	25
38	A Step Towards Miniaturized Milk Adulteration Detection System: Smartphone-Based Accurate pH Sensing Using Electrospun Halochromic Nanofibers. <i>Food Analytical Methods</i> , 2019, 12, 612-624.	1.3	25
39	Towards point-of-care diagnosis of Alzheimer's disease: Multi-analyte based portable chemiresistive platform for simultaneous detection of A β 1-40 and A β 1-42 in plasma. <i>Biosensors and Bioelectronics</i> , 2021, 186, 113294.	5.3	25
40	Electrochemical Detection of Cardiac Biomarkers Utilizing Electrospun Multiwalled Carbon Nanotubes Embedded SU-8 Nanofibers. <i>Electroanalysis</i> , 2017, 29, 380-386.	1.5	22
41	Nonlithographic Fabrication of Plastic-Based Nanofibers Integrated Microfluidic Biochip for Sensitive Detection of Infectious Biomarker. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39994-40005.	4.0	21
42	Acute administration of diazepam or midazolam minimally alters long-term neuropathological effects in the rat brain following acute intoxication with diisopropylfluorophosphate. <i>European Journal of Pharmacology</i> , 2020, 886, 173538.	1.7	21
43	Ultrasensitive, Label Free, Chemiresistive Nanobiosensor Using Multiwalled Carbon Nanotubes Embedded Electrospun SU-8 Nanofibers. <i>Sensors</i> , 2016, 16, 1354.	2.1	20
44	Kv1.3 activity perturbs the homeostatic properties of astrocytes in glioma. <i>Scientific Reports</i> , 2018, 8, 7654.	1.6	19
45	BDE-47 and BDE-49 Inhibit Axonal Growth in Primary Rat Hippocampal Neuron-Glia Co-Cultures via Ryanodine Receptor-Dependent Mechanisms. <i>Toxicological Sciences</i> , 2017, 156, kfw259.	1.4	18
46	Rapid Throughput Analysis of GABA _A Receptor Subtype Modulators and Blockers Using DiSBAC ₁ (3) Membrane Potential Red Dye. <i>Molecular Pharmacology</i> , 2017, 92, 88-99.	1.0	18
47	Single-phase high-entropy oxide-based chemiresistor: Toward selective and sensitive detection of methane gas for real-time applications. <i>Sensors and Actuators B: Chemical</i> , 2022, 357, 131426.	4.0	18
48	Low temperature, low pressure CMOS compatible Cu-Cu thermo-compression bonding with Ti passivation for 3D IC integration. , 2015, , .		17
49	A multi-tiered, in vivo, quantitative assay suite for environmental disruptors of thyroid hormone signaling. <i>Aquatic Toxicology</i> , 2017, 190, 1-10.	1.9	17
50	Surface Density Gradient Engineering Precedes Enhanced Diffusion; Drives CMOS In-Line Process Flow Compatible Cu-Cu Thermocompression Bonding at 75 Å°C. <i>IEEE Transactions on Device and Materials Reliability</i> , 2019, 19, 791-795.	1.5	17
51	Direct, CMOS In-Line Process Flow Compatible, Sub 100Å°C Cu-Cu Thermocompression Bonding Using Stress Engineering. <i>Electronic Materials Letters</i> , 2018, 14, 328-335.	1.0	16
52	Cerium oxide nanofiber based electroanalytical sensor for TNF- α detection: Improved interfacial stability with Nafion. <i>Bioelectrochemistry</i> , 2021, 138, 107725.	2.4	16
53	Measurement and modeling of pulsatile flow in microchannel. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 1225-1240.	1.0	15
54	Achieving low temperature Cu to Cu diffusion bonding with self assembly monolayer (SAM) passivation. , 2009, , .		14

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55	Inhibition of Soluble Epoxide Hydrolase as a Novel Approach to High Dose Diazepam Induced Hypertension. , 2016, 6, .		14
56	A miniaturized electrochemical platform with an integrated PDMS reservoir for label-free DNA hybridization detection using nanostructured Au electrodes. Analyst, The, 2019, 144, 6953-6961.	1.7	14
57	Label-free detection of β -Amyloid (1-42) in plasma using electrospun SnO ₂ nanofiber based electro-analytical sensor. Sensors and Actuators B: Chemical, 2021, 346, 130522.	4.0	14
58	Optimized ultra-thin manganin alloy passivated fine-pitch damascene compatible bump-less Cu-Cu bonding at sub 200 °C for three-dimensional Integration applications. Japanese Journal of Applied Physics, 2018, 57, 02BC04.	0.8	13
59	MoS ₂ Chemiresistive Sensor Array on Paper Patterned with Toner Lithography for Simultaneous Detection of NH ₃ and H ₂ S Gases. ACS Sustainable Chemistry and Engineering, 2021, 9, 14735-14743.	3.2	13
60	The Trials and Tribulations of Structure Assisted Design of KCa Channel Activators. Frontiers in Pharmacology, 2019, 10, 972.	1.6	12
61	Drift independent discrimination of H ₂ S from other interfering gases with a metal oxide gas sensor using extracted adsorption-desorption noise. Sensors and Actuators B: Chemical, 2021, 344, 130146.	4.0	12
62	Single-Phase High-Entropy Oxide Nanoparticles for Wide Dynamic Range Detection of CO ₂ . ACS Applied Nano Materials, 2022, 5, 4524-4536.	2.4	12
63	Preparation and optimization of PVDF thin films for miniaturized sensor and actuator applications. Smart Materials and Structures, 2021, 30, 075013.	1.8	11
64	Ultra-smooth e-beam evaporated amorphous silicon thin films – A viable alternative for PECVD amorphous silicon thin films for MEMS applications. Materials Letters, 2017, 197, 52-55.	1.3	10
65	Comparison of the toxicokinetics of the convulsants picrotoxinin and tetramethylenedisulfotetramine (TETS) in mice. Archives of Toxicology, 2020, 94, 1995-2007.	1.9	10
66	New capsaicin analogs as molecular rulers to define the permissive conformation of the mouse TRPV1 ligand-binding pocket. ELife, 2020, 9, .	2.8	10
67	Artificial Intelligence-Based Portable Bioelectronics Platform for SARS-CoV-2 Diagnosis with Multi-nucleotide Probe Assay for Clinical Decisions. Analytical Chemistry, 2021, 93, 14955-14965.	3.2	10
68	Electrodeposition as a facile way for the preparation of piezoelectric ultrathin silk film-based flexible nanogenerators. International Journal of Energy Research, 2022, 46, 3443-3457.	2.2	10
69	Reduction of the Measurement Time of a Chemiresistive Gas Sensor Using Transient Analysis and the Cantor Pairing Function. ACS Measurement Science Au, 2022, 2, 113-119.	1.9	10
70	Simultaneous Detection of CO and NH ₃ Gases at Room Temperature with an Array of ZnS Chemiresistive Sensors and the Superposition Principle. Analytical Chemistry, 2022, 94, 4602-4609.	3.2	10
71	TSV noise coupling in 3D IC using guard ring. , 2015, , .		9
72	Silk piezoelectric thin films: Materials to devices. , 2016, , .		9

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73	Flexible ITO Electrode With Gold Nanostructures for Femtomolar DNA Hybridization Detection. , 2018, 2, 1-4.		9
74	A Facile, Sensitive and Rapid Sensing Platform Based on CoZnO for Detection of Fipronil; an Environmental Toxin. Electroanalysis, 2020, 32, 2056-2064.	1.5	9
75	Neonatal sepsis at point of care. Clinica Chimica Acta, 2021, 521, 45-58.	0.5	9
76	2-D material enhanced ultrasensitive electrochemical sensing of Pro-BNP peptide towards the risk-assessment of human heart. Sensors and Actuators B: Chemical, 2022, 357, 131382.	4.0	9
77	A 1.5–7.5GHz low power low noise amplifier (LNA) design using subthreshold technique for Wireless Sensor Network (WSN) application. , 2012, , .		8
78	High Quality Fine-Pitch Cu-Cu Wafer-on-Wafer Bonding with Optimized Ti Passivation at 160Â°C. , 2016, , .		8
79	A low-cost multi-phase 3A buck converter with improved ripple cancellation for wide supply range. , 2016, , .		8
80	Metal-Alloy Cu Surface Passivation Leads to High Quality Fine-Pitch Bump-Less Cu-Cu Bonding for 3D IC and Heterogeneous Integration Applications. , 2018, , .		8
81	Electrospun Mnâ,Oâ,f Nanofiber Networks as Bio-Transducers: Electrical Characterization, Modeling, and DNA Sensing. IEEE Transactions on Electron Devices, 2021, 68, 1892-1898.	1.6	8
82	Sweetcorn husk derived porous carbon with inherent silica for ultrasensitive detection of ovarian cancer in blood plasma. Electrochimica Acta, 2021, 397, 139258.	2.6	8
83	Analysis of graphene and CNT based finned TTSV and spreaders for thermal management in 3D IC. , 2016, , .		7
84	A Highly Flexible Tactile Sensor with Self-Poled Electrospun PVDF Nanofiber. , 2018, , .		7
85	Simple and facile microfabrication of a flexible interdigitated capacitor for sensing applications. Flexible and Printed Electronics, 2019, 4, 015005.	1.5	7
86	Fabrication and characterization of SU-8-based capacitive micromachined ultrasonic transducer for airborne applications. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2018, 17, 1.	1.0	7
87	Boiling flow through diverging microchannel. Sadhana - Academy Proceedings in Engineering Sciences, 2013, 38, 1067-1082.	0.8	6
88	Long term efficacy of ultra-thin Ti passivation layer for achieving low temperature, low pressure Cu-Cu Wafer-on-Wafer bonding. , 2015, , .		6
89	Facile Synthesis of Electrospun Nickel (II) Oxide Nanofibers and Its Application for Hydrogen Peroxide Sensing. ChemistrySelect, 2018, 3, 12263-12268.	0.7	6
90	Electrospun polyaniline nanofiber based chemiresistive nanobiosensor platform for DNA Hybridization detection. , 2017, , .		5

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91	The seizure-inducing plastic explosive $\langle \text{RDX} \rangle$ inhibits the $\langle \text{GABA}_A \rangle$ receptor. Annals of Clinical and Translational Neurology, 2022, , .	1.7	5
92	A 1V, ~ 26 dBm sensitive auto configurable mixed converter mode RF energy harvesting with wide input range. , 2016, , .		4
93	Diffusion Enhanced Drive Sub 100 ^\circ C Wafer Level Fine-Pitch Cu-Cu Thermocompression Bonding for 3D IC Integration. , 2019, , .		4
94	Optimal Donor Care Filling for Minimizing Peak Toggles During At-Speed Stuck-At Testing. ACM Transactions on Design Automation of Electronic Systems, 2017, 23, 1-26.	1.9	4
95	Noise-cancelled subthreshold UWB LNA for Wireless Sensor Network application. , 2012, , .		3
96	Design of highly efficient charge pump for energy harvesting RFID applications. , 2012, , .		3
97	A ~ 30 dBm sensitive ultra low power RF energy harvesting front end with an efficiency of 70.1% at ~ 22 dBm. , 2015, , .		3
98	Ultra low power on-chip hybrid start-up for wireless sensor networks. , 2015, , .		3
99	Generation of a human induced pluripotent stem cell line CERAi001-A-6 using episomal vectors. Stem Cell Research, 2017, 22, 13-15.	0.3	3
100	Analytical design technique for real-time real single and dual frequency impedance matching networks in lossy passive environment. IET Microwaves, Antennas and Propagation, 2018, 12, 1013-1020.	0.7	3
101	Effect of ultrathin palladium layer in achieving a low temperature and pressure wafer level aluminum to aluminum bonding. Surface Topography: Metrology and Properties, 2020, 8, 045008.	0.9	3
102	Hybrid structured buck converter with ripple cancellation and improved efficiency. , 2013, , .		2
103	Efficient Dual Band RF Energy Harvesting Front End for Ultra Low Power Sensitive Passive Wearable Devices. , 2014, , .		2
104	Highly sensitive SAM modified electrospun zinc oxide nanofiber based label free biosensing platform. , 2015, , .		2
105	Optimized ultra-thin Manganin alloy passivated fine-pitch damascene compatible Cu-Cu bonding at sub 200 ^\circ C for 3D IC integration. , 2017, , .		2
106	Source localization via aermod-based simulation under mean squared error criterion: Demonstration using field data. , 2017, , .		2
107	PREFACE on the Special Issue "Technologies for Fighting COVID-19". , 2020, 5, 91-95.		2
108	Ti/Si interface enabling complementary metal oxide semiconductor compatible, high reliable bonding for inter-die micro-fluidic cooling for future advanced 3D integrated circuit integration. Journal of Micromechanics and Microengineering, 2020, 30, 105005.	1.5	2

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109	Efficient adaptive switch design for charge pumps in micro-scale energy harvesting. , 2012, , .		1
110	Modeling a IF double sampling bandpass switched capacitor ΣΔ ADC with a symmetric noise transfer function for WiMAX/WLAN. , 2012, , .		1
111	Transformer coupled novel noise cancellation technique for subthreshold UWB LNA. , 2012, , .		1
112	Design of subthreshold wide band down conversion mixer. , 2013, , .		1
113	Fabrication and characterization of zinc oxide nanowires for high-sensitivity sensing applications. , 2014, , .		1
114	Low temperature Cu-Cu thermocompression bonding assisted by electrochemical desorption of a self-assembled monolayer. , 2014, , .		1
115	Realizing Area efficient Silicon Micro Structures Using Only Front End Bulk Micromachining. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2015, 7, 191-197.	0.7	1
116	A wide input voltage range start-up circuit for solar energy harvesting system. , 2015, , .		1
117	A 2μW biomedical frontend with ΣΔ ADC for self-powered U-healthcare devices in 0.18μm CMOS technology. , 2015, , .		1
118	Zinc oxide nanowire modified flexible plastic platform for immunosensing. , 2016, , .		1
119	Low temperature CMOS compatible Cu-Cu thermo-compression bonding with constantan alloy passivation for 3D IC integration. , 2016, , .		1
120	Facile, low-cost, halochromic platform using electrospun nanofibers for milk adulteration detection. , 2016, , .		1
121	Exploring the Piezoelectric Property of Electrospun Silk Nanofibers for Sensing Applications. , 2018, , .		1
122	Cerium oxide nanofiberâ€based electrochemical immunosensor for detection of sepsis in biological fluid. Journal of Solid State Electrochemistry, 2021, 25, 2587-2598.	1.2	1
123	Electrochemical Nanoengineered Sensors in Infectious Disease Diagnosis. , 2020, , 165-180.		1
124	Phase noise reduction of an oscillator using harmonic mixing technique. , 2012, , .		0
125	Power dissipation analysis for different configurations of TSVs at high (GHz) frequencies. , 2013, , .		0
126	Transient suppression with pseudo error voltage technique for wide supply range automotive DC-DC converters. , 2016, , .		0

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127	Analysis of low temperature E-beam evaporated amorphous silicon thin films for MEMS applications. , 2016, , .		0
128	Selective Anisotropic Dry Etching of Piezoelectric Silk Microstructures Using Oxygen Plasma Ashing. , 2018, , .		0
129	Thermal and Optoelectrical Analysis of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Thin Film Thermistor in $8\text{--}12\ \mu\text{m}$ Range for Uncooled Microbolometer Application. , 2018, , .		0
130	Dependency of f_T and f_{MAX} on Various Device Parameters of AlGaIn/GaN HEMT. , 2018, , .		0
131	Modeling and Fabrication Aspects of PVDF as a Membrane Material for Air Borne PMUT Applications. , 2018, , .		0
132	Silicide Based Low Temperature and Low Pressure Bonding of Ti/Si for Microfluidic and Hermetic Sealing Application. , 2018, , .		0
133	Interface Analysis of High Reliable Hermetic Sealed Microfluidic Channels for Thermal Cooling in 3D ICs. , 2019, , .		0
134	Achieving of aluminum-aluminum wafer bonding at low temperature and pressure using Surface passivated technique. , 2019, , .		0
135	Amorphous-Carbon/Si Heterojunction Device for Room-Temperature NH_3 Sensing. , 2019, 3, 1-4.		0
136	Boron doped SiC thin film on Silicon synthesized from polycarbosilane: a new lead free material for applications in piezosensors. Journal of Materials Science: Materials in Electronics, 2021, 32, 25108.	1.1	0