

# Jose A Garrido

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151  
papers

8,367  
citations

45  
h-index

88  
g-index

158  
ext. papers

9,282  
ext. citations

7.2  
avg, IF

5.5  
L-index

#	Paper	IF	Citations
151	Novel transducers for high-channel-count neuroelectronic recording interfaces. <i>Current Opinion in Biotechnology</i> , <b>2021</b> , 72, 39-47	11.4	0
150	Novel Graphene Electrode for Retinal Implants: An Biocompatibility Study. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 615256	5.1	4
149	Characterization of optogenetically-induced cortical spreading depression in awake mice using graphene micro-transistor arrays. <i>Journal of Neural Engineering</i> , <b>2021</b> , 18,	5	1
148	Carbon Incorporation in MOCVD of MoS2 Thin Films Grown from an Organosulfide Precursor. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4474-4487	9.6	5
147	A 1024-Channel 10-Bit 36- W/ch CMOS ROIC for Multiplexed GFET-Only Sensor Arrays in Brain Mapping. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2021</b> , 15, 860-876	5.1	0
146	Graphene active sensor arrays for long-term and wireless mapping of wide frequency band epicortical brain activity. <i>Nature Communications</i> , <b>2021</b> , 12, 211	17.4	14
145	Bias dependent variability of low-frequency noise in single-layer graphene FETs. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 5450-5460	5.1	3
144	Distortion-Free Sensing of Neural Activity Using Graphene Transistors. <i>Small</i> , <b>2020</b> , 16, e1906640	11	13
143	Switchless Multiplexing of Graphene Active Sensor Arrays for Brain Mapping. <i>Nano Letters</i> , <b>2020</b> , 20, 3528-3537	11.5	23
142	Multiplexed neural sensor array of graphene solution-gated field-effect transistors. <i>2D Materials</i> , <b>2020</b> , 7, 025046	5.9	13
141	Production and processing of graphene and related materials. <i>2D Materials</i> , <b>2020</b> , 7, 022001	5.9	179
140	Improved metal-graphene contacts for low-noise, high-density microtransistor arrays for neural sensing. <i>Carbon</i> , <b>2020</b> , 161, 647-655	10.4	9
139	Low-Frequency Noise Parameter Extraction Method for Single-Layer Graphene FETs. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 2093-2099	2.9	8
138	Effect of channel thickness on noise in organic electrochemical transistors. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 073302	3.4	9
137	Crossover from ballistic to diffusive thermal transport in suspended graphene membranes. <i>2D Materials</i> , <b>2019</b> , 6, 025034	5.9	13
136	Versatile Graphene-Based Platform for Robust Nanobiohybrid Interfaces. <i>ACS Omega</i> , <b>2019</b> , 4, 3287-3297	3.9	4
135	Impact of contact overlap on transconductance and noise in organic electrochemical transistors. <i>Flexible and Printed Electronics</i> , <b>2019</b> , 4, 044003	3.1	26

134	Neural interfaces based on flexible graphene transistors: A new tool for electrophysiology <b>2019</b> ,		1
133	Velocity Saturation Effect on Low Frequency Noise in Short Channel Single Layer Graphene Field Effect Transistors. <i>ACS Applied Electronic Materials</i> , <b>2019</b> , 1, 2626-2636	4	12
132	High-resolution mapping of infraslow cortical brain activity enabled by graphene microtransistors. <i>Nature Materials</i> , <b>2019</b> , 18, 280-288	27	69
131	Uniformly coated highly porous graphene/MnO foams for flexible asymmetric supercapacitors. <i>Nanotechnology</i> , <b>2018</b> , 29, 225402	3.4	15
130	Lipid Monolayer Formation and Lipid Exchange Monitored by a Graphene Field-Effect Transistor. <i>Langmuir</i> , <b>2018</b> , 34, 4224-4233	4	8
129	Understanding the bias dependence of low frequency noise in single layer graphene FETs. <i>Nanoscale</i> , <b>2018</b> , 10, 14947-14956	7.7	16
128	Single-layer graphene modulates neuronal communication and augments membrane ion currents. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 755-764	28.7	78
127	Flexible Graphene Solution-Gated Field-Effect Transistors: Efficient Transducers for Micro-Electrocorticography. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1703976	15.6	67
126	Photocurrent generation of biohybrid systems based on bacterial reaction centers and graphene electrodes. <i>Diamond and Related Materials</i> , <b>2018</b> , 89, 286-292	3.5	4
125	Mapping brain activity with flexible graphene micro-transistors. <i>2D Materials</i> , <b>2017</b> , 4, 025040	5.9	55
124	GaN surface states investigated by electrochemical studies. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 101602	3.4	12
123	Frequency response of electrolyte-gated graphene electrodes and transistors. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 095304	3	15
122	Protecting a Diamond Quantum Memory by Charge State Control. <i>Nano Letters</i> , <b>2017</b> , 17, 5931-5937	11.5	51
121	Graphene in the Design and Engineering of Next-Generation Neural Interfaces. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700909	24	88
120	Electrochemical characterization of GaN surface states. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 045302	2.5	7
119	High surface area graphene foams by chemical vapor deposition. <i>2D Materials</i> , <b>2016</b> , 3, 045013	5.9	42
118	Photoresponse of supramolecular self-assembled networks on graphene-diamond interfaces. <i>Nature Communications</i> , <b>2016</b> , 7, 10700	17.4	32
117	THz-circuits driven by photo-thermoelectric, gate-tunable graphene-junctions. <i>Scientific Reports</i> , <b>2016</b> , 6, 35654	4.9	15

116	Flexible graphene transistors for recording cell action potentials. <i>2D Materials</i> , <b>2016</b> , 3, 025007	5.9	48
115	Surface State Mediated Electron Transfer Across the N-Type SiC/Electrolyte Interface. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 6524-6533	3.8	18
114	Suppression of Photoanodic Surface Oxidation of n-Type 6H-SiC Electrodes in Aqueous Electrolytes. <i>Langmuir</i> , <b>2016</b> , 32, 1637-44	4	7
113	Hexadecylhexyl-sexithiophene thin films for solution-gated organic field-effect transistors. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 073301	3.4	4
112	Graphene Field-Effect Transistors for In Vitro and Ex Vivo Recordings. <i>IEEE Nanotechnology Magazine</i> , <b>2016</b> , 1-1	2.6	8
111	Liquid Crystals: Alignment and Graphene-Assisted Decoration of Lyotropic Chromonic Liquid Crystals Containing DNA Origami Nanostructures (Small 12/2016). <i>Small</i> , <b>2016</b> , 12, 1542-1542	11	
110	Alignment and Graphene-Assisted Decoration of Lyotropic Chromonic Liquid Crystals Containing DNA Origami Nanostructures. <i>Small</i> , <b>2016</b> , 12, 1658-66	11	11
109	Role of grain boundaries in tailoring electronic properties of polycrystalline graphene by chemical functionalization. <i>2D Materials</i> , <b>2015</b> , 2, 024008	5.9	54
108	Photocurrent generation in diamond electrodes modified with reaction centers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 8099-107	9.5	39
107	Photocatalytic Stability of Single- and Few-Layer MoS <sub>2</sub> . <i>ACS Nano</i> , <b>2015</b> , 9, 11302-9	16.7	161
106	Ultrafast electronic readout of diamond nitrogen-vacancy centres coupled to graphene. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 135-9	28.7	57
105	Electrical coupling between cells and graphene transistors. <i>Small</i> , <b>2015</b> , 11, 1703-10	11	19
104	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , <b>2015</b> , 7, 4598-810	7.7	2015
103	Resettable, Low-temperature Accumulation Gas Sensors Based on Hydrogenated Diamond Transducers. <i>Procedia Engineering</i> , <b>2015</b> , 120, 590-593		5
102	Optoelectronic properties of p-diamond/n-GaN nanowire heterojunctions. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 154303	2.5	11
101	Doped GaN nanowires on diamond: Structural properties and charge carrier distribution. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 044307	2.5	19
100	Effects of hydroxylation and silanization on the surface properties of ZnO nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5331-7	9.5	8
99	Position-controlled growth of GaN nanowires and nanotubes on diamond by molecular beam epitaxy. <i>Nano Letters</i> , <b>2015</b> , 15, 1773-9	11.5	58

98	Addressing single nitrogen-vacancy centers in diamond with transparent in-plane gate structures. <i>Nano Letters</i> , <b>2014</b> , 14, 2359-64	11.5	32
97	A Current-Voltage Model for Graphene Electrolyte-Gated Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , <b>2014</b> , 61, 3971-3977	2.9	26
96	Low dimensionality of the surface conductivity of diamond. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	14
95	Influence of substrate material, orientation, and surface termination on GaN nanowire growth. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 054301	2.5	20
94	Three-dimensional bicomponent supramolecular nanoporous self-assembly on a hybrid all-carbon atomically flat and transparent platform. <i>Nano Letters</i> , <b>2014</b> , 14, 4486-92	11.5	15
93	Organophosphonate biofunctionalization of diamond electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 13909-16	9.5	10
92	Graphene transistors with multifunctional polymer brushes for biosensing applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 9705-10	9.5	62
91	Diamond surface conductivity: Properties, devices, and sensors. <i>MRS Bulletin</i> , <b>2014</b> , 39, 542-548	3.2	53
90	Induction heating-assisted repeated growth and electrochemical transfer of graphene on millimeter-thick metal substrates. <i>Diamond and Related Materials</i> , <b>2014</b> , 47, 46-52	3.5	13
89	Heteroepitaxial ZnO films on diamond: Optoelectronic properties and the role of interface polarity. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 213508	2.5	3
88	Emergence of photoswitchable states in a graphene-azobenzene-Au platform. <i>Nano Letters</i> , <b>2014</b> , 14, 6823-7	11.5	32
87	Detection of random vapour concentrations using an integrating diamond gas sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 195, 603-608	8.5	13
86	Graphene Transistors for Bioelectronics. <i>Proceedings of the IEEE</i> , <b>2013</b> , 101, 1780-1792	14.3	94
85	Semiconductor/Polymer Nanocomposites of Acrylates and Nanocrystalline Silicon by Laser-Induced Thermal Polymerization. <i>Macromolecular Materials and Engineering</i> , <b>2013</b> , 298, 1160-1165	3.9	9
84	Water adsorbate mediated accumulation gas sensing at hydrogenated diamond surfaces. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 181, 894-903	8.5	16
83	Functional Polymer Brushes on Hydrogenated Graphene. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 466-470	9.6	32
82	Functional Polymer Brushes on Diamond as a Platform for Immobilization and Electrical Wiring of Biomolecules. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 2979-2986	15.6	20
81	Purified neurons can survive on peptide-free graphene layers. <i>Advanced Healthcare Materials</i> , <b>2013</b> , 2, 929-33	10.1	87

80	Diamond solution-gated field effect transistors: Properties and bioelectronic applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 1631-1642	1.6	13
79	Fundamentals and Applications of Diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 1607-1608	1.6	
78	Solid polyelectrolyte-gated surface conductive diamond field effect transistors. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 023510	3.4	13
77	Solution processable carbon nanotube network thin-film transistors operated in electrolytic solutions at various pH. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 223101	3.4	14
76	Charge state manipulation of qubits in diamond. <i>Nature Communications</i> , <b>2012</b> , 3, 729	17.4	152
75	Self-assembled GaN nanowires on diamond. <i>Nano Letters</i> , <b>2012</b> , 12, 2199-204	11.5	65
74	Biofunctional electrolyte-gated organic field-effect transistors. <i>Advanced Materials</i> , <b>2012</b> , 24, 4511-7	24	82
73	Enzyme-modified electrolyte-gated organic field-effect transistors <b>2012</b> ,		2
72	Polymer brushes on graphene. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10490-8	16.4	129
71	High-transconductance graphene solution-gated field effect transistors. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 033503	3.4	71
70	Chemical control of the charge state of nitrogen-vacancy centers in diamond. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	230
69	Graphene transistor arrays for recording action potentials from electrogenic cells. <i>Advanced Materials</i> , <b>2011</b> , 23, 5045-9, 4968	24	187
68	Graphene Transistors for Bioelectronics: Graphene Transistor Arrays for Recording Action Potentials from Electrogenic Cells (Adv. Mater. 43/2011). <i>Advanced Materials</i> , <b>2011</b> , 23, 4968-4968	24	3
67	Nanostructured polymer brushes and protein density gradients on diamond by carbon templating. <i>Soft Matter</i> , <b>2011</b> , 7, 4861	3.6	34
66	Hydrophobic interaction and charge accumulation at the diamond-electrolyte interface. <i>Physical Review Letters</i> , <b>2011</b> , 106, 196103	7.4	27
65	Electrolyte-gated organic field-effect transistors for sensing applications. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 153302	3.4	84
64	Electrical passivation and chemical functionalization of SiC surfaces by chlorine termination. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 182106	3.4	16
63	Photoconductance of a submicron oxidized line in surface conductive single crystalline diamond. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 111107	3.4	7

62	Low-frequency noise in diamond solution-gated field effect transistors. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 093504	3.4	15
61	Thermally induced alkylation of diamond. <i>Langmuir</i> , <b>2010</b> , 26, 18862-7	4	14
60	Electronic properties of ultrananocrystalline diamond surfaces. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 092109	3.4	12
59	Controlling surface functionality through generation of thiol groups in a self-assembled monolayer. <i>Langmuir</i> , <b>2010</b> , 26, 15895-900	4	26
58	Microstructured poly(2-oxazoline) bottle-brush brushes on nanocrystalline diamond. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 4360-6	3.6	28
57	Graphene Solution-Gated Field-Effect Transistor Array for Sensing Applications. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 3117-3124	15.6	120
56	Low-temperature transport in highly boron-doped nanocrystalline diamond. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	31
55	Photoresponse and morphology of pentacene thin films modified by oxidized and reduced diamond surfaces. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	4
54	Interaction of Hydrogen and Oxygen with Nanocrystalline Diamond Surfaces. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1203, 1		
53	Diamond Transistor Array for Extracellular Recording From Electrogenic Cells. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2915-2923	15.6	79
52	Electrochemical impedance spectroscopy of oxidized and hydrogen-terminated nitrogen-induced conductive ultrananocrystalline diamond. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 1909-1915	6.7	26
51	Influence of hydrogen on nanocrystalline diamond surfaces investigated with HREELS and XPS. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 2022-2027	1.6	10
50	Metal-insulator transition and superconductivity in highly boron-doped nanocrystalline diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 1978-1985	1.6	11
49	Electronic and optical properties of boron-doped nanocrystalline diamond films. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	192
48	Hydrophobic and Hofmeister effects on the adhesion of spider silk proteins onto solid substrates: an AFM-based single-molecule study. <i>Langmuir</i> , <b>2008</b> , 24, 1350-5	4	51
47	The surface conductivity at the diamond/aqueous electrolyte interface. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 4177-81	16.4	34
46	Enzyme-modified field effect transistors based on surface-conductive single-crystalline diamond. <i>Langmuir</i> , <b>2008</b> , 24, 9898-906	4	26
45	Peptide adsorption on a hydrophobic surface results from an interplay of solvation, surface, and intrapeptide forces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 2842-7	11.5	135



44	Gas sensing properties of hydrogen-terminated diamond. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 133, 156-165	8.5	40
43	The diamond/aqueous electrolyte interface: an impedance investigation. <i>Langmuir</i> , <b>2008</b> , 24, 3897-904	4	44
42	Resolving the controversy on the pH sensitivity of diamond surfaces. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2008</b> , 2, 31-33	2.5	22
41	. <i>IEEE Sensors Journal</i> , <b>2007</b> , 7, 1349-1353	4	14
40	Immobilization of horseradish peroxidase via an amino silane on oxidized ultrananocrystalline diamond. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 138-143	3.5	48
39	Structured polymer grafts on diamond. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 15655-61	16.4	82
38	Structural, optical, and electronic properties of nanocrystalline and ultrananocrystalline diamond thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2007</b> , 204, 2874-2880	1.6	15
37	The ion sensitivity of surface conductive single crystalline diamond. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 1287-92	16.4	71
36	Novel Nanocomposite Actuator Based on Sulfonated Poly(styrene-b-ethylene-co-butylene-b-styrene) Polymer. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 3740-3743	1.3	24
35	Effect of nitrogen on the electronic properties of ultrananocrystalline diamond thin films grown on quartz and diamond substrates. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	96
34	Chemical grafting of biphenyl self-assembled monolayers on ultrananocrystalline diamond. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 16884-91	16.4	90
33	Synthetic nanocrystalline diamond as a third-generation biosensor support. <i>Langmuir</i> , <b>2006</b> , 22, 5837-424		78
32	Optical properties of nanocrystalline diamond thin films. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 101908	3.4	86
31	Direct biofunctionalization of semiconductors: A survey. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 3424-3437	1.6	139
30	Temperature-dependent transport properties of hydrogen-induced diamond surface conductive channels. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	32
29	pH sensors based on hydrogenated diamond surfaces. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 073504	3.4	91
28	Structural and interface properties of an AlN diamond ultraviolet light emitting diode. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3699-3701	3.4	13
27	Protein-modified nanocrystalline diamond thin films for biosensor applications. <i>Nature Materials</i> , <b>2004</b> , 3, 736-42	27	469



26	High quality heteroepitaxial AlN films on diamond. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 895-902	2.5	38
25	Novel in-plane gate devices on hydrogenated diamond surfaces. <i>Physica Status Solidi A</i> , <b>2003</b> , 199, 56-63		12
24	AlN/Diamond np-junctions. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 1873-1876	3.5	22
23	Scribing into hydrogenated diamond surfaces using atomic force microscopy. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3336-3338	3.4	19
22	AlN/diamond heterojunction diodes. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 290-292	3.4	84
21	Fabrication of in-plane gate transistors on hydrogenated diamond surfaces. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 988-990	3.4	38
20	Characterization of Sub-Micron In-Plane Devices in H-Terminated Diamond. <i>Physica Status Solidi A</i> , <b>2002</b> , 193, 517-522		4
19	Local Oxidation of Hydrogenated Diamond Surfaces for Device Fabrication. <i>Physica Status Solidi A</i> , <b>2002</b> , 193, 523-528		19
18	Characterization of n-Type Doped Homoepitaxial Diamond Thin Films. <i>Physica Status Solidi A</i> , <b>2002</b> , 193, 541-545		23
17	Electrical and optical measurements of CVD diamond doped with sulfur. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	19
16	Capacitance-voltage studies of Al-Schottky contacts on hydrogen-terminated diamond. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 637-639	3.4	22
15	A new acceptor state in CVD-diamond. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 347-350	3.5	14
14	Epitaxial growth of phosphorus doped diamond on {111} substrate. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 328-331	3.5	15
13	n-Type doping of diamond by sulfur and phosphorus. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 289-295	3.5	53
12	Scattering times in AlGa <sub>N</sub> /Ga <sub>N</sub> two-dimensional electron gas from magnetoresistance measurements. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 932-937	2.5	43
11	Tailoring of internal fields in AlGa <sub>N</sub> /Ga <sub>N</sub> and InGa <sub>N</sub> /Ga <sub>N</sub> heterostructure devices. <i>Physical Review B</i> , <b>2000</b> , 61, 2773-2778	3.3	32
10	Low-frequency noise and mobility fluctuations in AlGa <sub>N</sub> /Ga <sub>N</sub> heterostructure field-effect transistors. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 3442-3444	3.4	42
9	Si-doped Al <sub>x</sub> Ga <sub>1-x</sub> N photoconductive detectors. <i>Semiconductor Science and Technology</i> , <b>1999</b> , 14, 685-688		39

8	Polarization fields determination in AlGaIn/GaN heterostructure field-effect transistors from charge control analysis. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2407-2409	3.4	56
7	Polarization Field Determination in AlGaIn/GaN HFETs. <i>Physica Status Solidi A</i> , <b>1999</b> , 176, 195-199		8
6	Low frequency noise and screening effects in AlGaIn/GaN HEMTs. <i>Electronics Letters</i> , <b>1998</b> , 34, 2357	1.1	19
5	GaN-Based Solar-Ultraviolet Detection Instrument. <i>Applied Optics</i> , <b>1998</b> , 37, 5058-62	1.7	31
4	Photoconductive gain modelling of GaN photodetectors. <i>Semiconductor Science and Technology</i> , <b>1998</b> , 13, 563-568	1.8	144
3	Photoconductor gain mechanisms in GaN ultraviolet detectors. <i>Applied Physics Letters</i> , <b>1997</b> , 71, 870-872	3.4	151
2	Characterization and Modeling of Photoconductive GaN Ultraviolet Detectors. <i>MRS Internet Journal of Nitride Semiconductor Research</i> , <b>1997</b> , 2, 1		13
1	Single and Multisite Graphene-Based Electroretinography Recording Electrodes: A Benchmarking Study. <i>Advanced Materials Technologies</i> , 2101181	6.8	0