Necmi Biyikli

List of Publications by Year in Descending Order

135 papers	3,420 citations	32 h-index	53 g-index
143 ext. papers	3,811 ext. citations	3.8 avg, IF	5.42 L-index

#	Paper	IF	Citations
135	Excitation wavelength-dependent photoluminescence decay of single quantum dots near plasmonic gold nanoparticles.. *Journal of Chemical Physics*, **2022**, 156, 154701	3.9	1
134	In situ monitoring atomic layer doping processes for Al-doped ZnO layers: Competitive nature of surface reactions between metal precursors. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2022**, 40, 042401	2.9	1
133	Area-selective atomic layer deposition of noble metals: Polymerized fluorocarbon layers as effective growth inhibitors. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2021**, 39, 022402	2.9	0
132	Real-time in situ process monitoring and characterization of GaN films grown on Si (100) by low-temperature hollow-cathode plasma-atomic layer deposition using trimethylgallium and N2/H2 plasma. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2021**, 39, 022406	2.9	1
131	Perovskite/perovskite planar tandem solar cells: A comprehensive guideline for reaching energy conversion efficiency beyond 30%. *Nano Energy*, **2021**, 79, 105400	17.1	37
130	Low-Temperature As-Grown Crystalline □GaO Films via Plasma-Enhanced Atomic Layer Deposition. *ACS Applied Materials & Interfaces*, **2021**, 13, 8538-8551	9.5	5
129	Electrospinning Combined with Atomic Layer Deposition to Generate Applied Nanomaterials: A Review. *ACS Applied Nano Materials*, **2020**, 3, 6186-6209	5.6	7
128	Understanding the role of rf-power on AlN film properties in hollow-cathode plasma-assisted atomic layer deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2020**, 38, 022405	2.9	7
127	Atomic layer deposition of metal oxides for efficient perovskite single-junction and perovskite/silicon tandem solar cells.. *RSC Advances*, **2020**, 10, 14856-14866	3.7	12
126	Comparative Study on in-situ Ellipsometric Monitoring of III-Nitride Film Growth via Plasma-Enhanced Atomic Layer Deposition. *Selected Topics in Electornics and Systems*, **2020**, 77-83	0	
125	Elucidating the role of nitrogen plasma composition in the low-temperature self-limiting growth of indium nitride thin films.. *RSC Advances*, **2020**, 10, 27357-27368	3.7	7
124	Real-time in situ ellipsometric monitoring of aluminum nitride film growth via hollow-cathode plasma-assisted atomic layer deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2019**, 37, 020927	2.9	11
123	Comparative Study on in-situ Ellipsometric Monitoring of III-Nitride Film Growth via Plasma-Enhanced Atomic Layer Deposition. *International Journal of High Speed Electronics and Systems*, **2019**, 28, 1940020	0.5	2
122	Utilizing embedded ultra-small Pt nanoparticles as charge trapping layer in flashristor memory cells. *Applied Surface Science*, **2019**, 467-468, 715-722	6.7	4
121	Graphene as plasma-compatible blocking layer material for area-selective atomic layer deposition: A feasibility study for III-nitrides. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2018**, 36, 01A107	2.9	3
120	Long-range ordered vertical III-nitride nano-cylinder arrays via plasma-assisted atomic layer deposition. *Journal of Materials Chemistry C*, **2018**, 6, 6471-6482	7.1	6
119	Using nanogap in label-free impedance based electrical biosensors to overcome electrical double layer effect. *Microsystem Technologies*, **2017**, 23, 889-897	1.7	4

118	Postdeposition annealing on RF-sputtered SrTiO3 thin films. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2017**, 35, 021505	2.9	9
117	Pd nanocube decoration onto flexible nanofibrous mats of core–shell polymer–ZnO nanofibers for visible light photocatalysis. *New Journal of Chemistry*, **2017**, 41, 4145-4156	3.6	19
116	Surface Decoration of Pt Nanoparticles via ALD with TiO Protective Layer on Polymeric Nanofibers as Flexible and Reusable Heterogeneous Nanocatalysts. *Scientific Reports*, **2017**, 7, 13401	4.9	21
115	Reusable and Flexible Heterogeneous Catalyst for Reduction of TNT by Pd Nanocube Decorated ZnO Nanolayers onto Electrospun Polymeric Nanofibers. *ChemistrySelect*, **2017**, 2, 8790-8798	1.8	4
114	Monodispersed, Highly Interactive Facet (111)-Oriented Pd Nanograins by ALD onto Free-Standing and Flexible Electrospun Polymeric Nanofibrous Webs for Catalytic Application. *Advanced Materials Interfaces*, **2017**, 4, 1700640	4.6	12
113	A performance-enhanced planar Schottky diode for Terahertz applications: an electromagnetic modeling approach. *International Journal of Microwave and Wireless Technologies*, **2017**, 9, 1905-1913	0.8	3
112	Atomic layer deposition: an enabling technology for the growth of functional nanoscale semiconductors. *Semiconductor Science and Technology*, **2017**, 32, 093002	1.8	49
111	Nanofibrous Catalysts: Monodispersed, Highly Interactive Facet (111)-Oriented Pd Nanograins by ALD onto Free-Standing and Flexible Electrospun Polymeric Nanofibrous Webs for Catalytic Application (Adv. Mater. Interfaces 24/2017). *Advanced Materials Interfaces*, **2017**, 4, 1770126	4.6	
110	Properties of Hafnium Oxide Received by Ultra Violet Stimulated Plasma Anodization. *IEEE Transactions on Device and Materials Reliability*, **2017**, 17, 667-671	1.6	6
109	Electrical conduction and dielectric relaxation properties of AlN thin films grown by hollow-cathode plasma-assisted atomic layer deposition. *Semiconductor Science and Technology*, **2016**, 31, 075003	1.8	7
108	CO2laser polishing of microfluidic channels fabricated by femtosecond laser assisted carving. *Journal of Micromechanics and Microengineering*, **2016**, 26, 115011	2	22
107	Nanoscale selective area atomic layer deposition of TiO2 using e-beam patterned polymers. *RSC Advances*, **2016**, 6, 106109-106119	3.7	24
106	Area-Selective Atomic Layer Deposition Using an Inductively Coupled Plasma Polymerized Fluorocarbon Layer: A Case Study for Metal Oxides. *Journal of Physical Chemistry C*, **2016**, 120, 26393-26401	3.8	27
105	Investigation of native oxide removing from HCPA ALD grown GaN thin films surface utilizing HF solutions **2016**,		2
104	Effect of substrate temperature and Ga source precursor on growth and material properties of GaN grown by hollow cathode plasma assisted atomic layer deposition **2016**,		1
103	Protein-releasing conductive anodized alumina membranes for nerve-interface materials. *Materials Science and Engineering C*, **2016**, 67, 590-598	8.3	10
102	Practical multi-featured perfect absorber utilizing high conductivity silicon. *Journal of Optics (United Kingdom)*, **2016**, 18, 035002	1.7	4
101	Substrate temperature influence on the properties of GaN thin films grown by hollow-cathode plasma-assisted atomic layer deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2016**, 34, 01A125	2.9	12

100	Comparison of trimethylgallium and triethylgallium as Ga source materials for the growth of ultrathin GaN films on Si (100) substrates via hollow-cathode plasma-assisted atomic layer deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2016**, 34, 01A137	2.9	18
99	Low-temperature sequential pulsed chemical vapor deposition of ternary BxGa1-xN and BxIn1-xN thin film alloys. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2016**, 34, 01A123	2.9	7
98	All-Silicon Ultra-Broadband Infrared Light Absorbers. *Scientific Reports*, **2016**, 6, 38589	4.9	45
97	Substrate impact on the low-temperature growth of GaN thin films by plasma-assisted atomic layer deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2016**, 34, 041511	2.9	21
96	Low-temperature self-limiting atomic layer deposition of wurtzite InN on Si(100). *AIP Advances*, **2016**, 6, 045203	1.5	26
95	Perfectly absorbing ultra thin interference coatings for hydrogen sensing. *Optics Letters*, **2016**, 41, 1724-7	3	17
94	Facile Synthesis of Three-Dimensional Pt-TiO2 Nano-networks: A Highly Active Catalyst for the Hydrolytic Dehydrogenation of Ammonia-Borane. *Angewandte Chemie - International Edition*, **2016**, 55, 12257-61	16.4	113
93	Facile Synthesis of Three-Dimensional Pt-TiO2 Nano-networks: A Highly Active Catalyst for the Hydrolytic Dehydrogenation of Ammonia Borane. *Angewandte Chemie*, **2016**, 128, 12445-12449	3.6	32
92	Self-assembled peptide nanofiber templated ALD growth of TiO2 and ZnO semiconductor nanonetworks. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 3238-3244	1.6	7
91	Effect of O2/Ar flow ratio and post-deposition annealing on the structural, optical and electrical characteristics of SrTiO3 thin films deposited by RF sputtering at room temperature. *Thin Solid Films*, **2015**, 590, 193-199	2.2	13
90	Hollow-cathode plasma-assisted atomic layer deposition: A novel route for low-temperature synthesis of crystalline III-nitride thin films and nanostructures **2015**,		2
89	Transformation of polymer-ZnO core shell nanofibers into ZnO hollow nanofibers: Intrinsic defect reorganization in ZnO and its influence on the photocatalysis. *Applied Catalysis B: Environmental*, **2015**, 176-177, 646-653	21.8	52
88	Low-temperature hollow cathode plasma-assisted atomic layer deposition of crystalline III-nitride thin films and nanostructures. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2015**, 12, 394-398		11
87	Effect of reactor pressure on optical and electrical properties of InN films grown by high-pressure chemical vapor deposition. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2015**, 12, 423-429		3
86	Zno nanostructures via hydrothermal synthesis on atomic layer deposited seed-layers **2015**,		1
85	Current transport mechanisms in plasma-enhanced atomic layer deposited AlN thin films. *Journal of Applied Physics*, **2015**, 117, 155101	2.5	19
84	Amorphous to Tetragonal Zirconia Nanostructures and Evolution of Valence and Core Regions. *Journal of Physical Chemistry C*, **2015**, 119, 23268-23273	3.8	14
83	Low-temperature grown wurtzite InxGa1−xN thin films via hollow cathode plasma-assisted atomic layer deposition. *Journal of Materials Chemistry C*, **2015**, 3, 9620-9630	7.1	16

82	Fabrication of flexible polymer□GaN core□shell nanofibers by the combination of electrospinning and hollow cathode plasma-assisted atomic layer deposition. *Journal of Materials Chemistry C*, **2015**, 3, 5199-5206	7.1	22
81	Capacitance□onductance□urrent□oltage characteristics of atomic layer deposited Au/Ti/Al2O3/n-GaAs MIS structures. *Materials Science in Semiconductor Processing*, **2015**, 39, 400-407	4.3	82
80	Surface ionic states and structure of titanate nanotubes. *RSC Advances*, **2015**, 5, 82977-82982	3.7	8
79	Low temperature atomic layer deposited ZnO photo thin film transistors. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2015**, 33, 01A105	2.9	18
78	Enhanced photoresponse of conformal TiO2/Ag nanorod array-based Schottky photodiodes fabricated via successive glancing angle and atomic layer deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2015**, 33, 01A110	2.9	12
77	Boundary element method for optical force calibration in microfluidic dual-beam optical trap **2015**,		1
76	Effect of Film Thickness on the Electrical Properties of AlN Films Prepared by Plasma-Enhanced Atomic Layer Deposition. *IEEE Transactions on Electron Devices*, **2015**, 62, 3627-3632	2.9	5
75	Electronic and optical device applications of hollow cathode plasma assisted atomic layer deposition based GaN thin films. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2015**, 33, 01A143	2.9	9
74	Selective isolation of the electron or hole in photocatalysis: ZnO-TiO2 and TiO2-ZnO core-shell structured heterojunction nanofibers via electrospinning and atomic layer deposition. *Nanoscale*, **2014**, 6, 5735-45	7.7	127
73	Effect of coumarin concentration on the physical properties of CdO nanostructures. *Ceramics International*, **2014**, 40, 5237-5243	5.1	23
72	Optical characteristics of nanocrystalline AlxGa1□N thin films deposited by hollow cathode plasma-assisted atomic layer deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2014**, 32, 031508	2.9	9
71	Effect of postdeposition annealing on the electrical properties of □Ga2O3 thin films grown on p-Si by plasma-enhanced atomic layer deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2014**, 32, 041504	2.9	29
70	Hollow cathode plasma-assisted atomic layer deposition of crystalline AlN, GaN and AlxGa1□N thin films at low temperatures. *Journal of Materials Chemistry C*, **2014**, 2, 2123-2136	7.1	113
69	Low temperature thin film transistors with hollow cathode plasma-assisted atomic layer deposition based GaN channels. *Applied Physics Letters*, **2014**, 104, 243505	3.4	16
68	Low-Temperature Deposition of Hexagonal Boron Nitride via Sequential Injection of Triethylboron and N2/H2 Plasma. *Journal of the American Ceramic Society*, **2014**, 97, 4052-4059	3.8	28
67	Role of zinc interstitials and oxygen vacancies of ZnO in photocatalysis: a bottom-up approach to control defect density. *Nanoscale*, **2014**, 6, 10224-34	7.7	243
66	A Near-Infrared Range Photodetector Based on Indium Nitride Nanocrystals Obtained Through Laser Ablation. *IEEE Electron Device Letters*, **2014**, 35, 936-938	4.4	32
65	Enhanced photocatalytic activity of homoassembled ZnO nanostructures on electrospun polymeric nanofibers: A combination of atomic layer deposition and hydrothermal growth. *Applied Catalysis B: Environmental*, **2014**, 156-157, 173-183	21.8	79

64	Three-Dimensional Microfabricated Broadband Patch Antenna for WiGig Applications. *IEEE Antennas and Wireless Propagation Letters*, **2014**, 13, 828-831	3.8	11
63	COMPLEMENTARY SPIRAL RESONATORS FOR ULTRAWIDEBAND SUPPRESSION OF SIMULTANEOUS SWITCHING NOISE IN HIGH-SPEED CIRCUITS. *Progress in Electromagnetics Research C*, **2014**, 46, 117-124	0.9	1
62	Fabrication of AlN/BN bishell hollow nanofibers by electrospinning and atomic layer deposition. *APL Materials*, **2014**, 2, 096109	5.7	18
61	Water-soluble non-polymeric electrospun cyclodextrin nanofiber template for the synthesis of metal oxide tubes by atomic layer deposition. *RSC Advances*, **2014**, 4, 61698-61705	3.7	37
60	Metal-semiconductor-metal ultraviolet photodetectors based on gallium nitride grown by atomic layer deposition at low temperatures. *Optical Engineering*, **2014**, 53, 107106	1.1	6
59	Electrical characteristics of Au/Ti/n-GaAs contacts over a wide measurement temperature range. *Physica Scripta*, **2014**, 89, 095804	2.6	15
58	ZnO Nanostructures on Electrospun Nanofibers by Atomic Layer Deposition/Hydrothermal Growth and Their Photocatalytic Activity. *Materials Research Society Symposia Proceedings*, **2014**, 1675, 9-14		0
57	Electrical characteristics of □Ga2O3 thin films grown by PEALD. *Journal of Alloys and Compounds*, **2014**, 593, 190-195	5.7	40
56	Influence of coumarin as an additive on CuO nanostructures prepared by successive ionic layer adsorption and reaction (SILAR) method. *Journal of Alloys and Compounds*, **2013**, 566, 78-82	5.7	30
55	Template-Based Synthesis of Aluminum Nitride Hollow Nanofibers Via Plasma-Enhanced Atomic Layer Deposition. *Journal of the American Ceramic Society*, **2013**, 96, 916-922	3.8	22
54	Fabrication of hafnia hollow nanofibers by atomic layer deposition using electrospun nanofiber templates. *Journal of Alloys and Compounds*, **2013**, 559, 146-151	5.7	20
53	Surface-decorated ZnO nanoparticles and ZnO nanocoating on electrospun polymeric nanofibers by atomic layer deposition for flexible photocatalytic nanofibrous membranes. *RSC Advances*, **2013**, 3, 6817	3.7	49
52	Size-controlled conformal nanofabrication of biotemplated three-dimensional TiO□and ZnO nanonetworks. *Scientific Reports*, **2013**, 3, 2306	4.9	33
51	Low temperature deposition of Ga2O3 thin films using trimethylgallium and oxygen plasma. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2013**, 31, 01A110	2.9	48
50	(Invited) Plasma-Enhanced Atomic Layer Deposition of III-Nitride Thin Films. *ECS Transactions*, **2013**, 58, 289-297	1	8
49	Self-limiting low-temperature growth of crystalline AlN thin films by plasma-enhanced atomic layer deposition. *Thin Solid Films*, **2012**, 520, 2750-2755	2.2	76
48	Polymer-inorganic core-shell nanofibers by electrospinning and atomic layer deposition: flexible nylon-ZnO core-shell nanofiber mats and their photocatalytic activity. *ACS Applied Materials & Interfaces*, **2012**, 4, 6185-94	9.5	131
47	Au/TiO2 nanorod-based Schottky-type UV photodetectors. *Physica Status Solidi - Rapid Research Letters*, **2012**, 6, 442-444	2.5	21

46	Structural properties of AlN films deposited by plasma-enhanced atomic layer deposition at different growth temperatures. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 266-271	1.6	90
45	Preparation of Al2O3 and AlN Nanotubes by Atomic Layer Deposition. *Materials Research Society Symposia Proceedings*, **2012**, 1408, 133		
44	Optical properties of AlN thin films grown by plasma enhanced atomic layer deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2012**, 30, 021506	2.9	29
43	Atomic layer deposition of GaN at low temperatures. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2012**, 30, 01A124	2.9	53
42	Low-Temperature Self-Limiting Growth of III-Nitride Thin Films by Plasma-Enhanced Atomic Layer Deposition. *Nanoscience and Nanotechnology Letters*, **2012**, 4, 1008-1014	0.8	2
41	The influence of N2/H2 and ammonia N source materials on optical and structural properties of AlN films grown by plasma enhanced atomic layer deposition. *Journal of Crystal Growth*, **2011**, 335, 51-57	1.6	42
40	RF MEMS Integrated Frequency Reconfigurable Annular Slot Antenna. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 626-632	4.9	101
39	Nanoelectromechanical switches for reconfigurable antennas. *Microwave and Optical Technology Letters*, **2010**, 52, 64-69	1.2	8
38	Energy relaxation probed by weak antilocalization measurements in GaN heterostructures. *Journal of Applied Physics*, **2009**, 106, 103702	2.5	4
37	Low-voltage small-size double-arm MEMS actuator. *Electronics Letters*, **2009**, 45, 354	1.1	9
36	Penta-Band Planar Inverted F-Antenna (PIFA) Integrated by RF-NEMS Switches **2008**,		1
35	Measurement of linear and cubic spin□rbit coupling parameters in AlGaN/AlN/GaN heterostructures with a polarization-induced two-dimensional electron gas. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1586-1589	3	11
34	AlGaN-based high-performance metal□emiconductor□metal photodetectors. *Photonics and Nanostructures - Fundamentals and Applications*, **2007**, 5, 53-62	2.6	34
33	Magnetotransport properties of AlxGa1□xN□AlN□GaN heterostructures grown on epitaxial lateral overgrown GaN templates. *Journal of Applied Physics*, **2007**, 101, 113710	2.5	7
32	Effect of annealing on electrical properties of radio-frequency-sputtered ZnO films. *Journal of Electronic Materials*, **2006**, 35, 520-524	1.9	16
31	Persistent Photoconductivity in High-mobility AlxGa1□xN/AlN/GaN Heterostructures Grown by Metal-organic Vapor-phase Epitaxy. *Materials Research Society Symposia Proceedings*, **2006**, 955, 1		
30	Illumination and annealing characteristics of two-dimensional electron gas systems in metal-organic vapor-phase epitaxy grown AlxGa1□xN□AlN□GaN heterostructures. *Journal of Applied Physics*, **2006**, 100, 103702	2.5	9
29	Defect reduction in (112□0) a-plane GaN by two-stage epitaxial lateral overgrowth. *Applied Physics Letters*, **2006**, 89, 262105	3.4	48

28	Optimization of a-plane GaN growth by MOCVD on r-plane sapphire. *Journal of Crystal Growth*, **2006**, 290, 166-170	1.6	119
27	A study of the morphology of GaN seed layers on in situ deposited SixNy and its effect on properties of overgrown GaN epilayers. *Journal of Crystal Growth*, **2006**, 291, 301-308	1.6	12
26	Quantitative mobility spectrum analysis of AlGaN□GaN heterostructures using variable-field hall measurements. *Applied Physics Letters*, **2006**, 88, 142106	3.4	16
25	High-performance solar-blind AlGaN photodetectors **2005**,		7
24	High bandwidth-efficiency solar-blind AlGaN Schottky photodiodes with low dark current. *Solid-State Electronics*, **2005**, 49, 117-122	1.7	30
23	Fabrication and characterisation of solar-blind Al0.6Ga0.4N MSM photodetectors. *Electronics Letters*, **2005**, 41, 274	1.1	10
22	High-speed characterization of solar-blind AlxGa1□xN p□ photodiodes. *Semiconductor Science and Technology*, **2004**, 19, 1259-1262	1.8	17
21	High-performance solar-blind photodetectors based on Al/sub x/Ga/sub 1-x/N heterostructures. *IEEE Journal of Selected Topics in Quantum Electronics*, **2004**, 10, 742-751	3.8	73
20	High-speed InSb photodetectors on GaAs for mid-IR applications. *IEEE Journal of Selected Topics in Quantum Electronics*, **2004**, 10, 766-770	3.8	42
19	ITO-Schottky photodiodes for high-performance detection in the UV-IR spectrum. *IEEE Journal of Selected Topics in Quantum Electronics*, **2004**, 10, 759-765	3.8	21
18	High-speed 1.55 □m operation of low-temperature-grown GaAs-based resonant-cavity-enhanced p□ photodiodes. *Applied Physics Letters*, **2004**, 84, 4185-4187	3.4	6
17	Solar-blind AlGaN-based p-i-n photodiodes with low dark current and high detectivity. *IEEE Photonics Technology Letters*, **2004**, 16, 1718-1720	2.2	98
16	Investigation of AlGaN buffer layers on sapphire grown by MOVPE **2004**, 5366, 183		
15	High-Performance Solar-Blind AlGaN Schottky Photodiodes. *MRS Internet Journal of Nitride Semiconductor Research*, **2003**, 8, 1		6
14	High-Speed Solar-Blind AlGaN Schottky Photodiodes. *Materials Research Society Symposia Proceedings*, **2003**, 764, 1		1
13	High-Performance AlGaN-Based Visible-Blind Resonant Cavity Enhanced Schottky Photodiodes. *Materials Research Society Symposia Proceedings*, **2003**, 764, 1		
12	InSb high-speed photodetectors grown on GaAs substrate. *Journal of Applied Physics*, **2003**, 94, 5414	2.5	33
11	High-speed solar-blind photodetectors with indium-tin-oxide Schottky contacts. *Applied Physics Letters*, **2003**, 82, 2344-2346	3.4	44

10	High-Speed Visible-Blind Resonant Cavity Enhanced AlGaN Schottky Photodiodes. *MRS Internet Journal of Nitride Semiconductor Research*, **2003**, 8, 1		
9	Solar-Blind AlGaN-based Schottky Photodiodes With High Detectivity and Low Noise. *Materials Research Society Symposia Proceedings*, **2002**, 743, L7.11.1		
8	InGaAs-based high-performance p-i-n photodiodes. *IEEE Photonics Technology Letters*, **2002**, 14, 366-368	2.2	48
7	Solar-blind AlGaN-based Schottky photodiodes with low noise and high detectivity. *Applied Physics Letters*, **2002**, 81, 3272-3274	3.4	82
6	High-speed visible-blind GaN-based indium tin oxide Schottky photodiodes. *Applied Physics Letters*, **2001**, 79, 2838-2840	3.4	57
5	45 GHz bandwidth-efficiency resonant cavity enhanced ITO-Schottky Photodiodes **2001**,		1
4	High-Speed Transparent Indium-Tin-Oxide Based Resonant Cavity Schottky Photodiode with Si3N4/SiO2 Top Bragg Mirror **2001**,		1
3	High-speed GaAs-based resonant-cavity-enhanced 1.3 μm photodetector. *Applied Physics Letters*, **2000**, 77, 3890-3892	3.4	19
2	High-speed >90% quantum-efficiency pin photodiodes with a resonance wavelength adjustable in the 795–835 nm range. *Applied Physics Letters*, **1999**, 74, 1072-1074	3.4	32
1	High-speed high-efficiency resonant-cavity-enhanced photodiodes **1999**, 3629, 298		