

Kuan Y Cheong

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207
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3,620
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27
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50
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230
ext. papers

4,189
ext. citations

3
avg, IF

5.79
L-index

#	Paper	IF	Citations
207	Die Attach Materials for High Temperature Applications: A Review. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2011 , 1, 457-478	1.7	254
206	A Review on Die Attach Materials for SiC-Based High-Temperature Power Devices. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2010 , 41, 824-832	2.5	207
205	Mechanisms responsible for improvement of 4H-BiC/SiO ₂ interface properties by nitridation. <i>Applied Physics Letters</i> , 2003 , 82, 568-570	3.4	170
204	Electrical and optical studies of ZnO:Ga thin films fabricated via the sol-gel technique. <i>Thin Solid Films</i> , 2002 , 410, 142-146	2.2	158
203	Advances of Ag, Cu, and Ag-Cu alloy nanoparticles synthesized via chemical reduction route. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	115
202	Current conduction mechanisms in atomic-layer-deposited HfO ₂ /nitrided SiO ₂ stacked gate on 4H silicon carbide. <i>Journal of Applied Physics</i> , 2008 , 103, 084113	2.5	110
201	Advances of SiC-based MOS capacitor hydrogen sensors for harsh environment applications. <i>Sensors and Actuators B: Chemical</i> , 2010 , 151, 39-55	8.5	80
200	Effects of drying temperature and ethanol concentration on bipolar switching characteristics of natural Aloe vera-based memory devices. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26833-53	3.6	78
199	Electrical and physical characterization of gate oxides on 4H-SiC grown in diluted N ₂ O. <i>Journal of Applied Physics</i> , 2003 , 93, 5682-5686	2.5	69
198	A review on the synthesis of SiC from plant-based biomasses. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 951-964	3.1	65
197	Effects of Postdeposition Annealing in Argon Ambient on Metallorganic Decomposed CeO ₂ Gate Spin Coated on Silicon. <i>Journal of the Electrochemical Society</i> , 2010 , 157, H6	3.9	52
196	Wettability and strength of InBiSn lead-free solder alloy on copper substrate. <i>Journal of Alloys and Compounds</i> , 2010 , 507, 290-296	5.7	50
195	Elaboration and characterization of sol-gel derived ZrO ₂ thin films treated with hot water. <i>Applied Surface Science</i> , 2012 , 258, 5250-5258	6.7	47
194	Chemical reduction methods for synthesizing Ag and Al nanoparticles and their respective nanoalloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 187-203	3.1	47
193	Review on oxides of antimony nanoparticles: synthesis, properties, and applications. <i>Journal of Materials Science</i> , 2010 , 45, 5993-6008	4.3	43
192	Polymorphisms in lymphotoxin alpha and CD14 genes influence TNFalpha production induced by Gram-positive and Gram-negative bacteria. <i>Genes and Immunity</i> , 2003 , 4, 283-8	4.4	42
191	Sm ₂ O ₃ gate dielectric on Si substrate. <i>Materials Science in Semiconductor Processing</i> , 2010 , 13, 303-314	4.3	41

190	ZrO ₂ thin films on Si substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2010 , 21, 980-993	2.1	39
189	Effects of post-deposition annealing ambient on Y ₂ O ₃ gate deposited on silicon by RF magnetron sputtering. <i>Journal of Alloys and Compounds</i> , 2012 , 529, 73-83	5.7	35
188	Synthesis of Zn(II) 5,10,15,20-tetrakis(4-isopropylphenyl) porphyrin and its use as a thin film sensor. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 98, 103-109	2.6	35
187	Localization of central MHC genes influencing type I diabetes. <i>Human Immunology</i> , 2001 , 62, 1363-70	2.3	35
186	Thermal oxidation and nitridation of sputtered Zr thin film on Si via N ₂ O gas. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 8728-8737	5.7	33
185	Comparison of metal-organic decomposed (MOD) cerium oxide (CeO ₂) gate deposited on GaN and SiC substrates. <i>Journal of Crystal Growth</i> , 2011 , 326, 2-8	1.6	33
184	Analysis of current conduction mechanisms in atomic-layer-deposited Al ₂ O ₃ gate on 4H silicon carbide. <i>Applied Physics Letters</i> , 2007 , 90, 162113	3.4	33
183	Electronic Properties of Atomic-Layer-Deposited Al ₂ O ₃ /Thermal-Nitrided SiO ₂ Stacking Dielectric on 4H SiC. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, H69		32
182	Improved Electronic Performance of HfO ₂ /SiO ₂ Stacking Gate Dielectric on 4H SiC. <i>IEEE Transactions on Electron Devices</i> , 2007 , 54, 3409-3413	2.9	28
181	Effects of thermal nitrided gate-oxide thickness on 4H silicon-carbide-based metal-oxide-semiconductor characteristics. <i>Applied Physics Letters</i> , 2007 , 90, 012120	3.4	28
180	Embedded Nanoparticles in Schottky and Ohmic Contacts: A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2015 , 40, 197-222	10.1	27
179	Microstructural and optical properties of ZrON/Si thin films. <i>Materials Letters</i> , 2013 , 105, 72-75	3.3	27
178	Effect of Postdeposition Annealing in Oxygen Ambient on Gallium-Nitride-Based MOS Capacitors With Cerium Oxide Gate. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 122-131	2.9	27
177	Ultrathin Wafer Pre-Assembly and Assembly Process Technologies: A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2015 , 40, 251-290	10.1	25
176	Oxygen vacancy formation and annihilation in lanthanum cerium oxide as a metal reactive oxide on 4H-silicon carbide. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 7015-22	3.6	25
175	Recent development of gallium oxide thin film on GaN. <i>Materials Science in Semiconductor Processing</i> , 2013 , 16, 1217-1231	4.3	25
174	Oxidation of sputtered Zr thin film on Si substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2011 , 22, 143-150	2.1	25
173	Electrical Properties of Pulsed Laser Deposited Y ₂ O ₃ Gate Oxide on 4H-SiC. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, H396		25

172	Deposition and post-deposition annealing of thin Y2O3 film on n-type Si in argon ambient. <i>Materials Chemistry and Physics</i> , 2011 , 130, 1007-1015	4.4	24
171	Investigation of forming-gas annealed CeO2 thin film on GaN. <i>Journal of Materials Science: Materials in Electronics</i> , 2011 , 22, 583-591	2.1	24
170	Metal-oxide semiconductor characteristics of thermally grown nitrided SiO2 thin film on 4H-SiC in various N2O ambient. <i>Thin Solid Films</i> , 2010 , 518, 3255-3259	2.2	24
169	Thermal characteristic of sintered AgCu nanopaste for high-temperature die-attach application. <i>International Journal of Thermal Sciences</i> , 2015 , 87, 169-177	4.1	23
168	Aloe vera gel as natural organic dielectric in electronic application. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 2646-2652	2.1	23
167	Physical and electrical characteristics of metal-organic decomposed CeO2 gate spin-coated on 4H-SiC. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 103, 1067-1075	2.6	23
166	Mechanical properties of sintered AgCu die-attach nanopaste for application on SiC device. <i>Materials & Design</i> , 2014 , 64, 166-176		22
165	Effects of post-deposition annealing ambient on chemical, structural, and electrical properties of RF magnetron sputtered Y2O3 gate on gallium nitride. <i>Journal of Alloys and Compounds</i> , 2013 , 575, 382-392	5.7	22
164	Formation of Zr-oxynitride thin films on 4H-SiC substrate. <i>Thin Solid Films</i> , 2012 , 520, 6822-6829	2.2	22
163	Effects of post-oxidation annealing temperature on ZrO2 thin film deposited on 4H-SiC substrate. <i>Materials Science in Semiconductor Processing</i> , 2011 , 14, 13-17	4.3	22
162	Electrical Characteristics of Oxidized Nitrided Zr Thin Film on Si. <i>Journal of the Electrochemical Society</i> , 2011 , 158, H1270	3.9	21
161	Effects of N2O Postdeposition Annealing on Metal-Organic Decomposed CeO2 Gate Oxide Spin-Coated on GaN Substrate. <i>Journal of the Electrochemical Society</i> , 2011 , 158, H423	3.9	21
160	Sintering of Silver-Aluminum Nanopaste With Varying Aluminum Weight Percent for Use as a High-Temperature Die-Attach Material. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2012 , 2, 1940-1948	1.7	21
159	Influence of post-deposition annealing in oxygen ambient on metal-organic decomposed CeO2 film spin coated on 4H-SiC. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 257-266	2.1	20
158	Physical characterization of post-deposition annealed metal-organic decomposed cerium oxide film spin-coated on 4H-silicon carbide. <i>Journal of Alloys and Compounds</i> , 2010 , 497, 195-200	5.7	20
157	Effects of post-deposition annealing temperature and time on physical properties of metal-organic decomposed lanthanum cerium oxide thin film. <i>Thin Solid Films</i> , 2011 , 519, 5139-5145	2.2	20
156	Analysis of charge conduction mechanisms in nitrided SiO2 Film on 4H SiC. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 529-532	2.3	20
155	Characterization Methods for Ultrathin Wafer and Die Quality: A Review. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2014 , 4, 2042-2057	1.7	19

154	MOS Characteristics of Metallorganic-Decomposed CeO ₂ Spin-Coated on GaN. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, H116		19
153	Effects of Post-Deposition Annealing on CeO ₂ Gate Prepared by Metal-Organic Decomposition (MOD) Method on 4H-SiC. <i>Materials Science Forum</i> , 2010 , 645-648, 837-840	0.4	19
152	Investigation of sol-gel derived HfO ₂ on 4H-SiC. <i>Applied Surface Science</i> , 2008 , 254, 1981-1985	6.7	19
151	Channel-carrier mobility parameters for 4H SiC MOSFETs. <i>Microelectronics Reliability</i> , 2003 , 43, 405-411	1.2	19
150	Physical and Electrical Characteristics of Silver-Copper Nanopaste as Alternative Die-Attach. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2014 , 4, 8-15	1.7	18
149	Physical and dispersive optical characteristics of ZrON/Si thin-film system. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 115, 1069-1072	2.6	18
148	Study on Gallium Nitride-Based Metal Oxide Semiconductor Capacitors With RF Magnetron Sputtered Y_{2}O_{3} Gate. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 3009-3016	2.9	18
147	Metal-oxide-semiconductor characteristics of lanthanum cerium oxide film on Si. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 107, 459-467	2.6	18
146	Structural and Chemical Studies of Metal Organic Decomposed La _x Ce _y O _z Thin Film as a Catalytic Oxide on 4H-SiC as a Function of Postdeposition Annealing Time. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 14014-14024	3.8	18
145	Band alignment and enhanced breakdown field of simultaneously oxidized and nitrated Zr film on Si. <i>Nanoscale Research Letters</i> , 2011 , 6, 489	5	18
144	Metal-Oxide-Semiconductor Characteristics of Zr-Oxynitride Thin Film on 4H-SiC Substrate. <i>Journal of the Electrochemical Society</i> , 2012 , 159, H293-H299	3.9	18
143	MOS capacitor on 4H-SiC as a nonvolatile memory element. <i>IEEE Electron Device Letters</i> , 2002 , 23, 404-406	4	18
142	Effects of annealing time on the electrical properties of the Y ₂ O ₃ gate on silicon. <i>Journal of Experimental Nanoscience</i> , 2015 , 10, 19-28	1.9	17
141	Growth of SiC nanowires and nanocones using mixture of oil palm fibres and rice husk ash. <i>Journal of Materials Science</i> , 2012 , 47, 5477-5487	4.3	17
140	Gold nanoparticles deposited on linker-free silicon substrate and embedded in aluminum Schottky contact. <i>Journal of Colloid and Interface Science</i> , 2013 , 408, 220-8	9.3	16
139	Effects of post-deposition annealing temperature on metal-organic decomposed lanthanum cerium oxide film as metal reactive oxide layer on 4H-SiC. <i>Materials Chemistry and Physics</i> , 2013 , 140, 622-633	4.4	16
138	Study of molar ratio on the characteristics of metal-organic decomposed La _x Ce _y O _z film as a metal reactive oxide on Si substrate. <i>Journal of Alloys and Compounds</i> , 2013 , 581, 793-800	5.7	16
137	Surface passivation of gallium nitride by ultrathin RF-magnetron sputtered Al ₂ O ₃ gate. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6860-3	9.5	16

136	Rapid formation of transparent CuAlO ₂ thin film by thermal annealing of Cu on Al ₂ O ₃ . <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 1383-1387	6.4	16
135	Filamentary Conduction in Aloe Vera Film for Memory Application. <i>Procedia Engineering</i> , 2017 , 184, 655-662		15
134	Investigation of Aloe Vera as active layer for development of organic based memory devices. <i>Materials Technology</i> , 2015 , 30, A29-A35	2.1	15
133	Reliability of sintered Ag ₈₀ Al ₂₀ die attach nanopaste for high temperature applications on SiC power devices. <i>Microelectronics Reliability</i> , 2013 , 53, 473-480	1.2	15
132	Effects of post-deposition annealing temperature and ambient on RF magnetron sputtered Sm ₂ O ₃ gate on n-type silicon substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2011 , 22, 1816-1826	2.1	15
131	Ag/PEPC/NiPc/ZnO/Ag thin film capacitive and resistive humidity sensors. <i>Journal of Semiconductors</i> , 2010 , 31, 054002	2.3	15
130	Stimulation of silicon carbide nanotubes formation using different ratios of carbon nanotubes to silicon dioxide nanopowders. <i>Journal of Alloys and Compounds</i> , 2009 , 475, 565-568	5.7	15
129	Formation and characterization of SiO _x nanowires and Si/SiO _x core-shell nanowires via carbon-assisted growth. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 1338-1342	3	15
128	Effects of rapid thermal annealing on nitrided gate oxide grown on 4H-SiC. <i>Microelectronic Engineering</i> , 2006 , 83, 65-71	2.5	15
127	Current conduction mechanisms in post-nitridation rapid-thermal-annealed gate oxides on 4H silicon carbide. <i>Applied Physics Letters</i> , 2005 , 87, 212102	3.4	15
126	Retardation mechanism of ultrathin Al ₂ O ₃ interlayer on Y ₂ O ₃ passivated gallium nitride surface. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7797-805	9.5	14
125	Effects of annealing temperature on ultra-low dielectric constant SiO ₂ thin films derived from sol-gel spin-on-coating. <i>Physica B: Condensed Matter</i> , 2008 , 403, 611-615	2.8	14
124	Investigation of ultralow leakage in MOS capacitors on 4H SiC. <i>IEEE Transactions on Electron Devices</i> , 2004 , 51, 1361-1365	2.9	14
123	Current conduction mechanisms of RF-Magnetron sputtered Y ₂ O ₃ gate oxide on gallium nitride. <i>Current Applied Physics</i> , 2013 , 13, 1433-1439	2.6	13
122	N-Type Organic Field-Effect Transistor Based on Fullerene with Natural Aloe Vera/SiO ₂ Nanoparticles as Gate Dielectric. <i>ECS Journal of Solid State Science and Technology</i> , 2013 , 2, P440-P444	2	13
121	Charge retention in metal-oxide-semiconductor capacitors on SiC used as nonvolatile-memory elements. <i>Applied Physics Letters</i> , 2002 , 80, 3421-3423	3.4	13
120	Effects of post-deposition annealing time in oxygen ambient on Y ₂ O ₃ film deposited on silicon substrate. <i>Materials Research Innovations</i> , 2014 , 18, S6-495-S6-498	1.9	12
119	Controlled synthesis of Sb ₂ O ₃ nanoparticles by chemical reducing method in ethylene glycol. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 2807-2818	2.3	12

118	Effect of post-deposition annealing temperature on CeO ₂ thin film deposited on silicon substrate via RF magnetron sputtering technique. <i>Materials Science in Semiconductor Processing</i> , 2011 , 14, 101-107	4.3	12
117	Can MHC class II genes mediate resistance to type 1 diabetes?. <i>Immunology and Cell Biology</i> , 2001 , 79, 602-6	5	12
116	Au nanoparticles embedded at the interface of Al/4H-SiC Schottky contacts for current density enhancement. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 118, 315-325	2.6	11
115	Effects of post-deposition annealing ambient on band alignment of RF magnetron-sputtered Y ₂ O ₃ film on gallium nitride. <i>Nanoscale Research Letters</i> , 2013 , 8, 53	5	11
114	Effect of Postoxidation Annealing on High Temperature Grown SiO ₂ /4H-SiC Interfaces. <i>Journal of the Electrochemical Society</i> , 2010 , 157, H196	3.9	11
113	Effects of Electrode Materials on Charge Conduction Mechanisms of Memory Device Based on Natural Aloe Vera. <i>MRS Advances</i> , 2016 , 1, 2513-2518	0.7	11
112	Review on resistive switching mechanisms of bio-organic thin film for non-volatile memory application. <i>Nanotechnology Reviews</i> , 2021 , 10, 680-709	6.3	11
111	Switching Dynamics and Conductance Quantization of Aloe Polysaccharides-Based Device. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 3110-3117	2.9	10
110	Physical and electrical attributes of sintered Ag ₈₀ Al ₂₀ high temperature die attach material with different organic additives content. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 720-733	2.1	10
109	Growth Mechanism of Cubic-Silicon Carbide Nanowires. <i>Journal of Nanomaterials</i> , 2009 , 2009, 1-5	3.2	10
108	Characterization of anodic SiO ₂ films on P-type 4H-SiC. <i>Thin Solid Films</i> , 2009 , 517, 2808-2812	2.2	10
107	Investigation of electron-hole generation in MOS capacitors on 4H SiC. <i>IEEE Transactions on Electron Devices</i> , 2003 , 50, 1433-1439	2.9	10
106	Nonvolatile Memory Device Based on Bipolar and Unipolar Resistive Switching in Bio-Organic Aloe Polysaccharides Thin Film. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800007	6.8	10
105	Characterization of ultrathin Al ₂ O ₃ gate oxide deposited by RF-magnetron sputtering on gallium nitride epilayer on sapphire substrate. <i>Materials Chemistry and Physics</i> , 2014 , 148, 592-604	4.4	9
104	Thermal and photo reversible gel-sol transition of azobenzene based liquid crystalline organogel. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 278, 19-24	4.7	9
103	Fabrication of well-crystallized mesoporous ZrO ₂ thin films via Pluronic P123 templated sol-gel route. <i>Ceramics International</i> , 2013 , 39, S437-S440	5.1	9
102	Design of hierarchically mesoporous tetragonal ZrO ₂ thin films with tunable thickness by spin-coating via sol-gel template route. <i>Microporous and Mesoporous Materials</i> , 2013 , 167, 198-206	5.3	9
101	Effect of Sintering Temperature on Silver-Copper Nanopaste as High Temperature Die Attach Material. <i>Advanced Materials Research</i> , 2013 , 795, 47-50	0.5	9

100	Post deposition annealing effect on properties of Y2O3/Al2O3 stacking gate dielectric on 4H-SiC. <i>Materials Letters</i> , 2019 , 245, 174-177	3.3	8
99	Effects of rapid thermal annealing on structural, chemical, and electrical characteristics of atomic-layer deposited lanthanum doped zirconium dioxide thin film on 4H-SiC substrate. <i>Applied Surface Science</i> , 2016 , 365, 296-305	6.7	8
98	The effect of size and shape of gold nanoparticles on thin film properties. <i>Journal of Experimental Nanoscience</i> , 2014 , 9, 64-77	1.9	8
97	Growth of SiC nanowires using oil palm empty fruit bunch fibres infiltrated with tetraethyl orthosilicate. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 2041-2049	3	8
96	Direct formation of gold nanoparticles on substrates using a novel ZnO sacrificial templated-growth hydrothermal approach and their properties in organic memory device. <i>Nanoscale Research Letters</i> , 2012 , 7, 563	5	8
95	Properties of thermally oxidized and nitrided Zr-oxynitride thin film on 4H-SiC in diluted N2O ambient. <i>Materials Chemistry and Physics</i> , 2012 , 136, 624-637	4.4	8
94	Effects of temperature and crucible height on the synthesis of 6H-SiC nanowires and nanoneedles. <i>Journal of Alloys and Compounds</i> , 2009 , 481, 345-348	5.7	8
93	Electrical Properties of Atomic-Layer-Deposited La2O3/Thermal-Nitrided SiO2 Stacking Dielectric on 4H-SiC(0001). <i>Materials Science Forum</i> , 2007 , 556-557, 643-646	0.4	8
92	Properties of Nitrided Oxides on SiC. <i>Advanced Texts in Physics</i> , 2004 , 373-386		8
91	Investigation of honey thin film as a resistive switching material for nonvolatile memories. <i>Materials Letters</i> , 2020 , 271, 127796	3.3	7
90	Effects of drying temperature on tomato-based thin film as self-powered UV photodetector. <i>Applied Surface Science</i> , 2018 , 445, 186-196	6.7	7
89	Effects of oxidation and nitridation temperatures on electrical properties of sputtered Zr thin film based on Si in N2O ambient. <i>Electronic Materials Letters</i> , 2012 , 8, 47-51	2.9	7
88	A novel silver/aluminium high-temperature die attach nanopaste system: the effects of organic additives content on post-sintered attributes. <i>Journal of Materials Science: Materials in Electronics</i> , 2013 , 24, 2678-2688	2.1	7
87	Effect of Oxidation Time on Thermally Grown Oxide on GaN. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 1341-1347	1.6	7
86	Comparison of oxidized/nitrided Zr thin films on Si and SiC substrates. <i>Ceramics International</i> , 2013 , 39, S475-S479	5.1	7
85	Synthesis and characterization of silica/titania nanocomposite via a combination of sol-gel and mechanochemical process. <i>Journal of Alloys and Compounds</i> , 2008 , 466, 304-307	5.7	7
84	Effects of precursor aging and post-deposition treatment time on photo-assisted sol-gel derived low-dielectric constant SiO2 thin film on Si. <i>Microelectronics Journal</i> , 2007 , 38, 227-230	1.8	7
83	Titanium Dioxide/Polyvinyl Alcohol/Cork Nanocomposite: A Floating Photocatalyst for the Degradation of Methylene Blue under Irradiation of a Visible Light Source. <i>ACS Omega</i> , 2021 , 6, 14493-14503	2.9	7

82	Green synthesis of iron oxide thin-films grown from recycled iron foils. <i>Materials Science in Semiconductor Processing</i> , 2015 , 29, 294-299	4.3	6
81	An improved three-point bending test method for the investigation of nanosecond laser dicing of ultrathin Si dies with Cu stabilization layer. <i>Materials Characterization</i> , 2018 , 136, 29-40	3.9	6
80	Design and synthesis of mesoporous ZrO ₂ thin films using surfactant Pluronic P123 via sol-gel technique. <i>Journal of the Ceramic Society of Japan</i> , 2011 , 119, 517-521	1	6
79	Effect of process parameters on size, shape, and distribution of Sb ₂ O ₃ nanoparticles. <i>Journal of Materials Science</i> , 2011 , 46, 5129-5139	4.3	6
78	Effects of rapid thermal annealing on Al ₂ O ₃ /SiN reaction barrier layer/thermal-nitrided SiO ₂ stacking gate dielectrics on n-type 4H-SiC. <i>Applied Physics Letters</i> , 2010 , 96, 122108	3.4	6
77	FORTHCOMING GALLIUM NITRIDE BASED POWER DEVICES IN PROMPTING THE DEVELOPMENT OF HIGH POWER APPLICATIONS. <i>Modern Physics Letters B</i> , 2011 , 25, 77-88	1.6	6
76	Current Conduction Mechanisms in RF-Magnetron Sputtered Y ₂ O ₃ Gate on GaN Under Different Post-Deposition Annealing Ambient. <i>Science of Advanced Materials</i> , 2013 , 5, 1816-1827	2.3	6
75	Annealing temperature-dependent crystallinity and photocurrent response of anodic nanoporous iron oxide film. <i>Journal of Materials Research</i> , 2016 , 31, 1681-1690	2.5	5
74	Investigation of thermally grown oxide on 4H-SiC by a combination of H ₂ O and HNO ₃ vapor with varied HNO ₃ solution heating temperature. <i>Applied Surface Science</i> , 2013 , 285, 795-804	6.7	5
73	Effect of Nanosecond Laser Dicing on the Mechanical Strength and Fracture Mechanism of Ultrathin Si Dies With Cu Stabilization Layer. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2015 , 5, 1885-1897	1.7	5
72	Schottky barrier height engineering of Al contacts on Si by embedded Au nanoparticles. <i>Microelectronic Engineering</i> , 2015 , 133, 110-119	2.5	5
71	Effect of oxidation temperature on physical properties of thermally grown oxide on GaN in N ₂ O ambient. <i>Materials Chemistry and Physics</i> , 2012 , 137, 381-388	4.4	5
70	Influence of post-deposition annealing on metal-organic decomposed lanthanum cerium oxide film 2011 ,		5
69	Effects of Post-Deposition Annealing Temperature on Band Alignment and Electrical Characteristics of Lanthanum Cerium Oxide on 4H-SiC. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1433, 7		5
68	Resistive switching behaviour in a polymannose film for multistate non-volatile memory application. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1437-1450	7.1	5
67	Growth of gold nanoparticles using aluminum template via low-temperature hydrothermal method for memory applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 6484-6494	2.1	4
66	Direct formation of AuNPs thin film using thermal evaporated zinc as sacrificial template in hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 2227-2236	2.1	4
65	Effects of applied voltage on the properties of anodic zirconia thin film on (100) silicon. <i>Thin Solid Films</i> , 2012 , 522, 117-124	2.2	4

64	Effects of Thermally Oxidized-SiN Gate Oxide on 4H-SiC Substrate. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, H327		4
63	Memory properties of Au nanoparticles prepared by tuning HAuCl ₄ concentration using low-temperature hydrothermal reaction. <i>Thin Solid Films</i> , 2016 , 615, 84-90	2.2	3
62	Investigation of SiO ₂ film growth on 4H-SiC by direct thermal oxidation and postoxidation annealing techniques in HNO ₃ & H ₂ O vapor at varied process durations. <i>Thin Solid Films</i> , 2014 , 570, 138-149	2.2	3
61	Aloe vera in active and passive regions of electronic devices towards a sustainable development 2017 ,		3
60	A diplotype in the lymphotoxin alpha gene is associated with differential expression of LTA mRNA induced by Gram-positive and Gram-negative bacteria. <i>International Journal of Immunogenetics</i> , 2007 , 34, 157-60	2.3	3
59	Stress and thermal characterization of 4H-SiC microelectromechanical structures. <i>Materials Letters</i> , 2017 , 191, 196-199	3.3	2
58	Fracture strength and microstructural study of ultrathin Si die with Cu backside layer diced with picosecond laser. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 759, 785-796	5.3	2
57	Mechanism study of SiO ₂ layer formation and separation at the Si die sidewall during nanosecond laser dicing of ultrathin Si wafers with Cu backside layer. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	2
56	Ultralow Voltage Operation of $\text{Al}_x\text{La}_{1-x}\text{Ce}_z\text{O}_z/\text{4H-SiC}$ for Oxygen Sensing. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1430-1432	4.4	2
55	Post-Deposition Annealing in Nitrous Oxide Ambient of RF-Magnetron Sputtered Y ₂ O ₃ Film on Silicon Substrate. <i>Advanced Materials Research</i> , 2014 , 1024, 360-363	0.5	2
54	Influence of post-deposition annealing time on oxygen gas sensing behaviour of Al/La _{0.5} Ce _{0.5} O _{1.75} /Si metal-oxide-semiconductor capacitor. <i>Materials Research Innovations</i> , 2014 , 18, S6-490-S6-494	1.9	2
53	Deposition of Gold Nanoparticles on Linker-Free Silicon Substrate by Spin-Coating. <i>Advanced Materials Research</i> , 2014 , 1024, 124-127	0.5	2
52	Effect of spent bleaching earth based bio organic fertilizer on growth, yield and quality of eggplants under field condition 2013 ,		2
51	Effects of SiO ₂ Nanoparticles on Dielectric Characteristic of Aloe Vera Paste. <i>Advanced Materials Research</i> , 2013 , 858, 74-79	0.5	2
50	Effects of wet-oxidized 4H-SiC annealed in HNO ₃ /H ₂ O vapour. <i>Microelectronics International</i> , 2013 , 31, 42-53	0.8	2
49	Formation of Anodic Oxide Nanotubes in H ₂ O ₂ - Fluoride Ethylene Glycol Electrolyte as Template for Electrodeposition of Fe ₂ O ₃ . <i>Advanced Materials Research</i> , 2013 , 832, 333-337	0.5	2
48	Electrical study of ZrO ₂ /Si system formed at different oxidation/nitridation temperatures for extended duration in N ₂ O ambient. <i>Journal of Materials Research</i> , 2013 , 28, 2985-2989	2.5	2
47	Effect of postdeposition annealing on electrical properties of RF-magnetron sputtered CeO _x gate on 4H-silicon carbide. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1925-1930	1.6	2

46	Improved 4H-SiC MOS Interface Produced by Oxidized-SiN Gate Oxide. <i>Materials Science Forum</i> , 2010 , 645-648, 511-514	0.4	2
45	Effect of Post Deposition Annealing on the Characteristics of Sol-Gel Derived HfO ₂ on 4H-SiC. <i>Materials Science Forum</i> , 2009 , 615-617, 545-548	0.4	2
44	Effect of Sintering Time on Silver-Aluminium Nanopaste for High Temperature Die Attach Applications. <i>Advanced Materials Research</i> , 2012 , 576, 199-202	0.5	2
43	Effect of Post-Oxidation Annealing on High-Temperature Grown SiO ₂ /4H-SiC Interface. <i>Materials Science Forum</i> , 2008 , 600-603, 731-734	0.4	2
42	Comparison of charge retention times in n- and p-type 4H-SiC MOS capacitors as non-volatile memory elements. <i>Journal of Crystal Growth</i> , 2004 , 268, 547-553	1.6	2
41	A review of laser ablation and dicing of Si wafers. <i>Precision Engineering</i> , 2022 , 73, 377-408	2.9	2
40	Development and mechanical characterization of bilayer tubular scaffolds for vascular tissue engineering applications. <i>Journal of Materials Science</i> , 2020 , 55, 2516-2529	4.3	2
39	Effects of Post-Deposition Annealing Time on Metal-Organic Decomposed Lanthanum Cerium Oxide Film Spin-Coated on Si Substrate. <i>Advanced Materials Research</i> , 2014 , 1024, 364-367	0.5	1
38	Effect of sintering environment on silver-copper die-attach nanopaste 2014 ,		1
37	Sintering of Ag ₈₀ -Al ₂₀ nanoalloy for high temperature die attach applications on silicon carbide-based power devices: The effects of ramp rate and dwell time 2012 ,		1
36	Synthesis of SiC nanostructures through chemical vapor growth route. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2012 , 43, 412-415	0.9	1
35	CURRENT CONDUCTION MECHANISMS OF ATOMIC-LAYER-DEPOSITED Al ₂ O ₃ /NITRIDED SiO ₂ STACKING GATE OXIDE ON 4H-SiC. <i>International Journal of Modern Physics B</i> , 2010 , 24, 5371-5378	1.1	1
34	Characteristics of Sol-Gel Derived SiO ₂ Thick Film on 4H-SiC. <i>Materials Science Forum</i> , 2008 , 600-603, 811-814	0.4	1
33	Effects of Sb on SnAgCu lead-free solder 2008 ,		1
32	Investigation of Microwave Properties of High Permittivity Ceramic Substrate. <i>Journal of Electromagnetic Waves and Applications</i> , 2008 , 22, 1873-1882	1.3	1
31	Effects of heat treatment in vacuum on the physical properties of thermal nitrided silicon dioxide gate on 4H-silicon carbide. <i>Thin Solid Films</i> , 2008 , 516, 7921-7924	2.2	1
30	Oxidation, MOS Capacitors, and MOSFETs. <i>Springer Series in Materials Science</i> , 2004 , 345-373	0.9	1
29	Study of synaptic properties of honey thin film for neuromorphic systems. <i>Materials Letters</i> , 2021 , 1311693		1

28	Nonvolatile resistive switching memory based on monosaccharide fructose film. <i>Applied Physics Letters</i> , 2021 , 119, 163302	3.4	1
27	Investigation of honey as the electrolyte gate dielectrics of field effect transistors. <i>Microsystem Technologies</i> , 2020 , 26, 1717-1720	1.7	1
26	Artificial Synaptic Behavior of Aloe Polysaccharides-Based Device with Au as Top Electrode. <i>MRS Advances</i> , 2020 , 5, 693-698	0.7	1
25	Femtosecond laser dicing of ultrathin Si wafers with Cu backside layer - A fracture strength and microstructural study. <i>Journal of Manufacturing Processes</i> , 2021 , 62, 859-872	5	1
24	Scanning electron microscopy of soxhlet extracted aloe vera gel for electrolyte application. <i>Journal of Physics: Conference Series</i> , 2018 , 1123, 012070	0.3	1
23	The adhesion of epoxy treated by microwave oxygen plasma. <i>Applied Surface Science</i> , 2021 , 563, 1502246.7		1
22	Buoyant titanium dioxide (TiO ₂) as high performance photocatalyst and peroxide activator: A critical review on fabrication, mechanism and application. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107549	6.8	1
21	Effects of Various Heating Rate and Sintering Temperatures on the Microstructural and Die-Shear Strength of Sintered Ag-Cu Nanopaste. <i>Procedia Engineering</i> , 2017 , 184, 611-615		0
20	I-V characteristics of Ag/OD-MO/Ag surface-type diode fabricated by deposition of organic film from solution under the effect of an electric field. <i>EPJ Applied Physics</i> , 2010 , 50, 30401	1.1	0
19	Synergetic effects of monoethanolamine (MEA) and post-deposition calcination on biosynthesized CeO ₂ nanostructures spin-coated on silicon substrate. <i>Materials Chemistry and Physics</i> , 2022 , 278, 125656	4.4	0
18	Resistive Switching Properties of ZrO ₂ Film by Plasma-Enhanced Atomic Layer Deposition for Non-volatile Memory Applications. <i>Journal of Electronic Materials</i> , 2021 , 50, 5396	1.9	0
17	Natural biomaterial honey-based resistive switching device for artificial synapse in neuromorphic systems. <i>Applied Physics Letters</i> , 2022 , 120, 083301	3.4	0
16	Effect of Template Deposition Method on Formation of AuNPs in Memory Devices Application. <i>Solid State Phenomena</i> , 2019 , 290, 67-74	0.4	
15	High-k La ₂ Ce ₂ O ₇ for Passivation of Si Substrate. <i>Journal of Physics: Conference Series</i> , 2020 , 1535, 012030.3		
14	Effect of Zinc Nitrate Concentration on Formation of AuNPs by Sacrificial Templated Growth Hydrothermal Approach and its Properties in Organic Memory Device. <i>Advanced Materials Research</i> , 2013 , 858, 67-73	0.5	
13	The Effect of Hydrothermal Reaction Time on Formation of AuNPs by Sacrificial Templated Growth Hydrothermal Approach. <i>Advanced Materials Research</i> , 2014 , 1024, 71-74	0.5	
12	Advances in Smart Materials and Applications. <i>Advances in Materials Science and Engineering</i> , 2014 , 2014, 1-1	1.5	
11	Nanoindentation of Porous Die Attach Materials as a Means of Determining Mechanical Attributes. <i>Applied Mechanics and Materials</i> , 2013 , 393, 57-62	0.3	

- 10 Effect of sputtering time on physical and electrical properties of ZrO₂ thin film on Si. *Microelectronics International*, **2011**, 28, 7-11 0.8
- 9 EFFECT OF POST-DEPOSITION ANNEALING IN FORMING GAS ON STRUCTURAL AND ELECTRICAL PROPERTIES OF SOL-GEL DERIVED SiO₂ THICK FILM ON 4H-SiC. *International Journal of Modern Physics B*, **2010**, 24, 4521-4528 1.1
- 8 Microwave Properties of Bismuth Lanthanum Titanate Ceramic Substrate and its Effects with Various Shapes. *Journal of Electromagnetic Waves and Applications*, **2009**, 23, 415-425 1.3
- 7 Structural characterisation of anodic SiO₂ thin films on n-type Si. *Surface Engineering*, **2008**, 24, 388-391 2.6
- 6 Performance of Organic Polymer Electrolyte Based on Extracted Aloe Vera Polysaccharide Compared with Mannose, Agarose and Carboxymethyl-Cellulose (CMC) for DSCs Application. *Springer Proceedings in Complexity*, **2021**, 431-439 0.3
- 5 Surface Modification of Semiconductor by Simultaneous Thermal Oxidation and Nitridation **2015**, 2997-3029
- 4 Effects of Post-deposition Annealing Time in Nitrogen Ambient on Y₂O₃ Films Deposited on Silicon **2014**, 649-655
- 3 Surface Modification of Semiconductor by Simultaneous Thermal Oxidation and Nitridation **2014**, 1-28
- 2 Effects of Post-Deposition Annealing Time in Forming Gas Ambient on Y₂O₃ Films Deposited on Silicon Substrate. *Journal of Physics: Conference Series*, **2020**, 1535, 012031 0.3
- 1 Effects of Oxalic Acid on UV-C Sensing Property of Tomato Thin-Film Based Photodetector. *Journal of Physics: Conference Series*, **2018**, 1082, 012054 0.3