Corrado Bongiorno

List of Publications by Year
in descending order

185 papers	3,880 citations	136950 32 h-index	182427 51 g-index
185 all docs	185 docs citations	185 times ranked	4981 citing authors

#	Article	IF	Citations
1	Formation and evolution of luminescent Si nanoclusters produced by thermal annealing of SiOx films. Journal of Applied Physics, 2004, 95, 3723-3732.	2.5	303
2	Efficient Luminescence and Energy Transfer in Erbium Silicate Thin Films. Advanced Materials, 2007, 19, 1582-1588.	21.0	124
3	Pb clustering and PbI2 nanofragmentation during methylammonium lead iodide perovskite degradation. Nature Communications, 2019, 10, 2196.	12.8	116
4	Si-based materials and devices for light emission in silicon. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 16, 547-553.	2.7	101
5	From thin film to bulk 3C-SiC growth: Understanding the mechanism of defects reduction. Materials Science in Semiconductor Processing, 2018, 78, 57-68.	4.0	99
6	Ambipolar MoS₂ Transistors by Nanoscale Tailoring of Schottky Barrier Using Oxygen Plasma Functionalization. ACS Applied Materials & Interfaces, 2017, 9, 23164-23174.	8.0	81
7	Similar Structural Dynamics for the Degradation of CH₃NH₃PbI₃ in Air and in Vacuum. ChemPhysChem, 2015, 16, 3064-3071.	2.1	80
8	Microscopy study of the conductive filament in HfO2 resistive switching memory devices. Microelectronic Engineering, 2013, 109, 75-78.	2.4	78
9	Inhibition of AÎ² Amyloid Growth and Toxicity by Silybins: The Crucial Role of Stereochemistry. ACS Chemical Neuroscience, 2017, 8, 1767-1778.	3.5	72
10	Electroluminescence and transport properties in amorphous silicon nanostructures. Nanotechnology, 2006, 17, 1428-1436.	2.6	68
11	Free-Standing Copper(II) Oxide Nanotube Arrays through an MOCVD Template Process. Chemistry of Materials, 2004, 16, 5559-5561.	6.7	67
12	Photochemical synthesis of copper nanoparticles incorporated in poly(vinyl pyrrolidone). Journal of Nanoparticle Research, 2008, 10, 1183-1192.	1.9	61
13	High-quality 6inch (111) 3C-SiC films grown on off-axis (111) Si substrates. Thin Solid Films, 2010, 518, S165-S169.	1.8	61
14	Effects of Annealing Treatments on the Properties of Al/Ti/p-GaN Interfaces for Normally OFF p-GaN HEMTs. IEEE Transactions on Electron Devices, 2016, 63, 2735-2741.	3.0	55
15	Dielectric properties of Pr2O3 high-k films grown by metalorganic chemical vapor deposition on silicon. Applied Physics Letters, 2003, 83, 129-131.	3.3	51
16	Nanoscale structural characterization of epitaxial graphene grown on off-axis 4H-SiC (0001). Nanoscale Research Letters, 2011, 6, 269.	5.7	50
17	Formation of nanoparticles from laser irradiated Au thin film on SiO2/Si: Elucidating the Rayleigh-instability role. Materials Letters, 2012, 84, 27-30.	2.6	49
18	Localized electrical characterization of the giant permittivity effect in CaCu3Ti4O12 ceramics. Applied Physics Letters, 2008, 92, .	3.3	48

#	Article	IF	Citations
19	Structural defects in (100) 3C-SiC heteroepitaxy: Influence of the buffer layer morphology on generation and propagation of stacking faults and microtwins. Diamond and Related Materials, 2009, 18, 1440-1449.	3.9	46
20	Conductive filament structure in HfO2 resistive switching memory devices. Solid-State Electronics, 2015, 111, 161-165.	1.4	46
21	Laser ablation synthesis of mono- and bimetallic Pt and Pd nanoparticles and fabrication of Pt-Pd/Graphene nanocomposites. Applied Surface Science, 2019, 475, 494-503.	6.1	43
22	Chemical Vapor Deposition Growth of Silicon Nanowires with Diameter Smaller Than 5 nm. ACS Omega, 2019, 4, 17967-17971.	3.5	42
23	Ni(OH)2@Ni core-shell nanochains as low-cost high-rate performance electrode for energy storage applications. Scientific Reports, 2019, 9, 7736.	3.3	41
24	Oxygen Functionalities Evolution in Thermally Treated Graphene Oxide Featured by EELS and DFT Calculations. Journal of Physical Chemistry C, 2017, 121, 5408-5414.	3.1	40
25	Chemical and structural arrangement of the trigonal phase in GeSbTe thin films. Nanotechnology, 2017, 28, 065706.	2.6	39
26	Role of the Support and the Ru Precursor on the Performance of Ru/Carbon Catalysts Towards H2 Production Through NaBH4 Hydrolysis. Catalysis Letters, 2012, 142, 882-888.	2.6	38
27	Towards a laser fluence dependent nanostructuring of thin Au films on Si by nanosecond laser irradiation. Applied Surface Science, 2012, 258, 9128-9137.	6.1	37
28	Molecular doping applied to Si nanowires array based solar cells. Solar Energy Materials and Solar Cells, 2015, 132, 118-122.	6.2	37
29	Electron energy-loss spectra of graphene oxide for the determination of oxygen functionalities. Carbon, 2015, 93, 1034-1041.	10.3	36
30	Comparative study of gate oxide in 4H-SiC lateral MOSFETs subjected to post-deposition-annealing in N2O and POCl3. Applied Physics A: Materials Science and Processing, 2014, 115, 333-339.	2.3	35
31	Nanoscale surface modification of Mt. Etna volcanic ashes. Geochimica Et Cosmochimica Acta, 2016, 174, 70-84.	3.9	35
32	Genesis and evolution of extended defects: The role of evolving interface instabilities in cubic SiC. Applied Physics Reviews, 2020, 7, 021402.	11.3	35
33	Multi-Scale-Porosity TiO2 scaffolds grown by innovative sputtering methods for high throughput hybrid photovoltaics. Scientific Reports, 2016, 6, 39509.	3.3	34
34	New Approaches and Understandings in the Growth of Cubic Silicon Carbide. Materials, 2021, 14, 5348.	2.9	34
35	Microstructure of Au nanoclusters formed in and on SiO2. Superlattices and Microstructures, 2008, 44, 588-598.	3.1	33
36	Amorphous-Crystal Phase Transitions in Ge_xTe_{1-x}Alloys. Journal of the Electrochemical Society, 2011, 159, H130-H139.	2.9	32

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37	Role of Linear Carbon Chains in the Aggregation of Copper, Silver, and Gold Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 907-915.	3.1	31
38	Supported silver catalysts prepared by deposition in aqueous solution of Ag nanoparticles obtained through a photochemical approach. Applied Catalysis A: General, 2009, 367, 138-145.	4.3	30
39	Electrical and structural properties of surfaces and interfaces in Ti/Al/Ni Ohmic contacts to p-type implanted 4H-SiC. Applied Surface Science, 2017, 420, 331-335.	6.1	30
40	Formation, evolution and photoluminescence properties of Si nanoclusters. Journal of Physics Condensed Matter, 2007, 19, 225003.	1.8	29
41	Efficiency Enhancement in ZnO:Al-Based Dye-Sensitized Solar Cells Structured with Sputtered TiO₂Blocking Layers. Journal of Physical Chemistry C, 2014, 118, 6576-6585.	3.1	29
42	Crystallization of sputtered-deposited and ion implanted amorphous Ge2Sb2Te5 thin films. Journal of Applied Physics, 2009, 105, .	2.5	27
43	Ti/Al ohmic contacts on AlGaN/GaN heterostructures with different defect density. Applied Surface Science, 2014, 314, 546-551.	6.1	27
44	Temperature-dependent Fowler-Nordheim electron barrier height in SiO2/4H-SiC MOS capacitors. Materials Science in Semiconductor Processing, 2018, 78, 38-42.	4.0	27
45	Nanostructured TiO₂ Grown by Low-Temperature Reactive Sputtering for Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 6218-6229.	5.1	27
46	Quantitative determination of the clustered silicon concentration in substoichiometric silicon oxide layer. Applied Physics Letters, 2005, 87, 044102.	3.3	26
47	Functionalization of Bulk SiO2 Surface with Biomolecules for Sensing Applications: Structural and Functional Characterizations. Chemosensors, 2018, 6, 59.	3.6	26
48	Extended defects in 3C-SiC: Stacking faults, threading partial dislocations, and inverted domain boundaries. Acta Materialia, 2021, 213, 116915.	7.9	26
49	Pseudoepitaxial transrotational structures in 14â€…nm-thick NiSi layers on [001] silicon. Acta Crystallographica Section B: Structural Science, 2005, 61, 486-491.	1.8	25
50	Morphological and electrical properties of Nickel based Ohmic contacts formed by laser annealing process on n-type 4H-SiC. Materials Science in Semiconductor Processing, 2019, 97, 62-66.	4.0	25
51	Impact of Stacking Faults and Domain Boundaries on the Electronic Transport in Cubic Silicon Carbide Probed by Conductive Atomic Force Microscopy. Advanced Electronic Materials, 2020, 6, 1901171.	5.1	25
52	Preferential oxidation of stacking faults in epitaxial off-axis (111) 3C-SiC films. Applied Physics Letters, 2009, 95, 111905.	3.3	24
53	Protrusions reduction in 3C-SiC thin film on Si. Journal of Crystal Growth, 2018, 498, 248-257.	1.5	24
54	Tailoring the Tiâ•4Hâ€“SiC Schottky barrier by ion irradiation. Applied Physics Letters, 2004, 85, 6152-6154.	3.3	23

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55	Crystallization of ion amorphized Ge2Sb2Te5 thin films in presence of cubic or hexagonal phase. Journal of Applied Physics, 2010, 107, .	2.5	23
56	Photo-physical characterization of fluorophore Ru(bpy) 3 2+ for optical biosensing applications. Sensing and Bio-Sensing Research, 2015, 6, 67-71.	4.2	23
57	Innovative spongy TiO2 layers for gas detection at low working temperature. Sensors and Actuators B: Chemical, 2018, 259, 658-667.	7.8	23
58	Role of the internal strain on the incomplete Siâ•SiO2 phase separation in substoichiometric silicon oxide films. Applied Physics Letters, 2007, 90, 183101.	3.3	22
59	Electron trapping at SiO₂/4H-SiC interface probed by transient capacitance measurements and atomic resolution chemical analysis. Nanotechnology, 2018, 29, 395702.	2.6	22
60	Development of Chitosan/Cyclodextrin Nanospheres for Levofloxacin Ocular Delivery. Pharmaceutics, 2021, 13, 1293.	4.5	22
61	Critical nickel thickness to form silicide transrotational structures on [001] silicon. Applied Physics Letters, 2006, 89, 102105.	3.3	20
62	Pulsed laser deposition of multiwalled carbon nanotubes thin films. Applied Surface Science, 2007, 254, 1260-1263.	6.1	20
63	Heteroepitaxial growth of (111) 3C-SiC on (110) Si substrate by second order twins. Applied Physics Letters, 2008, 92, 224102.	3.3	20
64	Trehalose Conjugates of Silybin as Prodrugs for Targeting Toxic Aî² Aggregates. ACS Chemical Neuroscience, 2020, 11, 2566-2576.	3.5	20
65	Anatase/Rutile nucleation and growth on (0002) and (11-20) oriented ZnO:Al/glass substrates at 150Â°C. Thin Solid Films, 2014, 555, 3-8.	1.8	19
66	Crystallization properties of melt-quenched Ge-rich GeSbTe thin films for phase change memory applications. Journal of Applied Physics, 2020, 128, .	2.5	19
67	Two-dimensional defect mapping of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SiO</mml:mi><mml:mn>2</mml:mn></mml:msub><mml interface. Physical Review Materials, 2019, 3, .	2.4	19
68	Heteroepitaxial Growth and Faceting of Ge Nanowires on Si(111) by Electron-Beam Evaporation. Electrochemical and Solid-State Letters, 2010, 13, K53.	2.2	18
69	Silicon nitride surfaces as active substrate for electrical DNA biosensors. Sensors and Actuators B: Chemical, 2017, 252, 492-502.	7.8	18
70	Effect of the liquid environment on the formation of carbon nanotubes and graphene layers by arcing processes. Carbon, 2012, 50, 2365-2369.	10.3	17
71	Nickel nanostructured materials from liquid phase photodeposition. Journal of Nanoparticle Research, 2007, 9, 611-619.	1.9	16
72	Direct Growth on Si(100) of Isolated Octahedral Mil-101(Fe) Crystals for the Separation of Aromatic Vapors. Journal of Physical Chemistry C, 2019, 123, 28836-28845.	3.1	16

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73	Structural Characterization and Adsorption Properties of Dunino Raw Halloysite Mineral for Dye Removal from Water. Materials, 2021, 14, 3676.	2.9	16
74	Interfacial electrical and chemical properties of deposited SiO2 layers in lateral implanted 4H-SiC MOSFETs subjected to different nitridations. Applied Surface Science, 2021, 557, 149752.	6.1	16
75	Structural characterization of Ni2Si pseudoepitaxial transrotational structures on [001] Si. Acta Crystallographica Section B: Structural Science, 2006, 62, 729-736.	1.8	14
76	Surface effects on the growth of solution processed pentacene thin films. Surface Science, 2008, 602, 993-1005.	1.9	14
77	Two-dimensional electron gas insulation by local surface thin thermal oxidation in AlGaNâ•GaN heterostructures. Applied Physics Letters, 2008, 92, 252101.	3.3	14
78	Fiber texturing in nano-crystalline TiO₂ thin films deposited at 150ÂÂ°C by dc-reactive sputtering on fiber-textured [0â€‰0â€‰0â€‰1] ZnOâ€‰:â€‰Al substrates. Journal Physics D: Applied Physics, 2012, 45, 355301.	2.8	14
79	Low temperature sputtered TiO₂ nano sheaths on electrospun PES fibers as high porosity photoactive material. RSC Advances, 2015, 5, 73444-73450.	3.6	14
80	TiO₂ Colloids Laser-Treated in Ethanol for Photocatalytic H₂ Production. ACS Applied Nano Materials, 2020, 3, 9127-9140.	5.0	14
81	Generation and Termination of Stacking Faults by Inverted Domain Boundaries in 3C-SiC. Crystal Growth and Design, 2020, 20, 3104-3111.	3.0	14
82	Nano-patterning with Block Copolymers. Superlattices and Microstructures, 2008, 44, 693-698.	3.1	13
83	High Quality Single Crystal 3C-SiC(111) Films Grown on Si(111). Materials Science Forum, 0, 615-617, 145-148.	0.3	13
84	Selective diffusion of gold nanodots on nanopatterned substrates realized by self-assembly of diblock copolymers. Journal of Materials Research, 2011, 26, 240-246.	2.6	13
85	Nanoporous Ge electrode as a template for nano-sized (< 5 nm) Au aggregates. Nanotechnology, 2012, 23, 395604.	2.6	13
86	Thermally induced structural modifications of nano-sized anatase films and the effects on the dye-TiO2 surface interactions. Applied Surface Science, 2014, 296, 69-78.	6.1	13
87	Photo-electrochemical water splitting in silicon based photocathodes enhanced by plasmonic/catalytic nanostructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 225, 128-133.	3.5	13
88	Atomic diffusion in laser irradiated Ge rich GeSbTe thin films for phase change memory applications. Journal Physics D: Applied Physics, 2018, 51, 145103.	2.8	13
89	Î²-Bi₂O₃ reduction by laser irradiation in a liquid environment. Physical Chemistry Chemical Physics, 2018, 20, 10292-10301.	2.8	13
90	Modification of the sheet resistance under Ti/Al/Ni/Au Ohmic contacts on AlGaN/GaN heterostructures. Materials Science in Semiconductor Processing, 2018, 78, 111-117.	4.0	13

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91	Ohmic contacts on n-type and p-type cubic silicon carbide (3C-SiC) grown on silicon. Materials Science in Semiconductor Processing, 2019, 93, 295-298.	4.0	13
92	Barrier height tuning in Ti/4H-SiC Schottky diodes. Solid-State Electronics, 2021, 186, 108042.	1.4	13
93	Low temperature formation and evolution of a 10 nm amorphous Niâ€“Si layer on [001] silicon studied by in situ transmission electron microscopy. Journal of Applied Physics, 2009, 105, .	2.5	12
94	On the â€œStep Bunchingâ€•Phenomena Observed on Etched and Homoepitaxially Grown 4H Silicon Carbide. Materials Science Forum, 0, 679-680, 358-361.	0.3	12
95	Pervasive infiltration and multi-branch chemisorption of N-719 molecules into newly designed spongy TiO₂ layers deposited by gig-lox sputtering processes. Journal of Materials Chemistry A, 2017, 5, 25529-25538.	10.3	12
96	Metal/Semiconductor Barrier Properties of Non-Recessed Ti/Al/Ti and Ta/Al/Ta Ohmic Contacts on AlGaN/GaN Heterostructures. Energies, 2019, 12, 2655.	3.1	12
97	3C-SiC Growth on Inverted Silicon Pyramids Patterned Substrate. Materials, 2019, 12, 3407.	2.9	12
98	Ni/4H-SiC interaction and silicide formation under excimer laser annealing for ohmic contact. Materialia, 2020, 9, 100528.	2.7	12
99	Exploring the Structural Competition between the Black and the Yellow Phase of CsPbI3. Nanomaterials, 2021, 11, 1282.	4.1	12
100	Synthesis of MIL-Modified Fe3O4 Magnetic Nanoparticles for Enhancing Uptake and Efficiency of Temozolomide in Glioblastoma Treatment. International Journal of Molecular Sciences, 2022, 23, 2874.	4.1	12
101	Local Order and Crystallization of Laser Quenched and Ion Implanted Amorphous Ge[sub 1â^'x]Te[sub x] Thin Films. Electrochemical and Solid-State Letters, 2010, 13, H317.	2.2	11
102	Structural and electrical properties of AlN thin films on GaN substrates grown by plasma enhanced-Atomic Layer Deposition. Materials Science in Semiconductor Processing, 2019, 97, 35-39.	4.0	11
103	Ultralow loading electroless deposition of IrOx on nickel foam for efficient and stable water oxidation catalysis. International Journal of Hydrogen Energy, 2020, 45, 26583-26594.	7.1	11
104	Correlating electron trapping and structural defects in Al2O3 thin films deposited by plasma enhanced atomic layer deposition. AIP Advances, 2020, 10, .	1.3	11
105	Thermal evolution and photoluminescence properties of nanometric Si layers. Nanotechnology, 2005, 16, 3012-3016.	2.6	10
106	Effect of surrounding environment on atomic structure and equilibrium shape of growing nanocrystals: gold in/on SiO2. Nanoscale Research Letters, 2007, 2, 240-247.	5.7	10
107	3C-SiC Heteroepitaxial Growth on Inverted Silicon Pyramids (ISP). Materials Science Forum, 0, 645-648, 135-138.	0.3	10
108	Nanoscale electro-structural characterisation of ohmic contacts formed on p-type implanted 4H-SiC. Nanoscale Research Letters, 2011, 6, 158.	5.7	10

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109	TiO2 Nanofibrous Chemoresistors Coated with PEDOT and PANi Blends for High Performance Gas Sensors. Procedia Engineering, 2012, 47, 937-940.	1.2	10
110	Nanofabrication processes for innovative nanohole-based solar cells. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1564-1570.	1.8	10
111	Characterization of SiO₂/SiC Interfaces Annealed in N₂O or POCl₃. Materials Science Forum, 0, 778-780, 623-626.	0.3	10
112	Direct observation of single organic molecules grafted on the surface of a silicon nanowire. Scientific Reports, 2019, 9, 5647.	3.3	10
113	On the origin of the premature breakdown of thermal oxide on 3C-SiC probed by electrical scanning probe microscopy. Applied Surface Science, 2020, 526, 146656.	6.1	10
114	Structural defects and device electrical behaviour in AlGaN/GaN heterostructures grown on 8Â° off-axis 4H-SiC. Applied Physics A: Materials Science and Processing, 2010, 100, 197-202.	2.3	9
115	Preparation of ceria and titania supported Pt catalysts through liquid phase photo-deposition. Journal of Molecular Catalysis A, 2010, 333, 100-108.	4.8	9
116	Synthesis of crystalline Si quantum dots by millisecond laser irradiation of SiOxNy layers. Journal of Applied Physics, 2010, 107, 023703.	2.5	9
117	Morphological and Electrical Characterization of Electrically Trimmable Thin-Film Resistors. IEEE Transactions on Electron Devices, 2012, 59, 3549-3554.	3.0	9
118	Light scattering calculations from Au and Au/SiO2 core/shell nanoparticles. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 47, 25-33.	2.7	9
119	New Synthetic Route for the Growth of Î±-FeOOH/NH₂-Mil-101 Films on Copper Foil for High Surface Area Electrodes. ACS Omega, 2019, 4, 18495-18501.	3.5	8
120	Formation of CsPbI₃ Î³â€Phase at 80â€‰Â°C by Europiumâ€Assisted Snowplow Effect. Advanced Energy and Sustainability Research, 2021, 2, 2100091.	5.8	8
121	Blackâ€Yellow Bandgap Tradeâ€Off During Thermal Stability Tests in Lowâ€Temperature Euâ€Doped CsPbI₃. Solar Rrl, 2022, 6, .	5.8	8
122	Synthesis and luminescence properties of erbium silicate thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 146, 29-34.	3.5	7
123	Morphological and electrical characterization of SixCryCzBv thin films. Microelectronic Engineering, 2010, 87, 430-433.	2.4	7
124	Effect of Dopant Concentrations and Annealing Conditions on the Electrically Active Profiles and Lattice Damage in Al Implanted 4H-SiC. Materials Science Forum, 2010, 645-648, 713-716.	0.3	7
125	Schottky Barrier Inhomogeneities in Nickel Silicide Transrotational Contacts. Applied Physics Express, 2011, 4, 115701.	2.4	7
126	Bimodal Porosity and Stability of a TiO2 Gig-Lox Sponge Infiltrated with Methyl-Ammonium Lead Iodide Perovskite. Nanomaterials, 2019, 9, 1300.	4.1	7

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127	Study on the Physico-Chemical Properties of the Si Nanowires Surface. Nanomaterials, 2019, 9, 818.	4.1	7
128	Inter-diffusion, melting and reaction interplay in Ni/4H-SiC under excimer laser annealing. Applied Surface Science, 2021, 539, 148218.	6.1	7
129	Nanoporous Ge coated by Au nanoparticles for electrochemical application. Electrochemistry Communications, 2013, 30, 83-86.	4.7	6
130	Simulation of the Growth Kinetics in Group IV Compound Semiconductors. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800597.	1.8	6
131	Thermal annealing effect on electrical and structural properties of Tungsten Carbide Schottky contacts on AlGaN/GaN heterostructures. Semiconductor Science and Technology, 2020, 35, 105004.	2.0	6
132	Simulations of the Ultra-Fast Kinetics in Ni-Si-C Ternary Systems under Laser Irradiation. Materials, 2021, 14, 4769.	2.9	6
133	Impact of Nitrogen on the Selective Closure of Stacking Faults in 3C-SiC. Crystal Growth and Design, 2022, 22, 4996-5003.	3.0	6
134	Interface roughening and defect nucleation during solid phase epitaxy regrowth of doped and intrinsic Si0.83Ge0.17 alloys. Journal of Applied Physics, 2007, 101, 103508.	2.5	5
135	Crystallization of Nanometer Ge2Sb2Te5 Amorphous Regions Embedded in the Hexagonal Close Packed Structure. Electrochemical and Solid-State Letters, 2012, 15, H105.	2.2	5
136	A strategy to stabilise the local structure of Ti4+ and Zn2+ species against aging in TiO2/aluminium-doped ZnO bi-layers for applications in hybrid solar cells. Journal of Applied Physics, 2014, 116, .	2.5	5
137	Electrical and structural properties of Ti/Alâ€based contacts on AlGaN/GaN heterostructures with different quality. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1091-1098.	1.8	5
138	Stacking Faults Defects on 3C-SiC Homo-Epitaxial Films. Materials Science Forum, 0, 924, 124-127.	0.3	5
139	High Resolution Investigation of Stacking Fault Density by HRXRD and STEM. Materials Science Forum, 0, 963, 346-349.	0.3	5
140	Systematic Characterization of Plasma-Etched Trenches on 4H-SiC Wafers. ACS Omega, 2021, 6, 20667-20675.	3.5	5
141	Photo-Fenton Degradation of Methyl Orange with Dunino Halloysite as a Source of Iron. Catalysts, 2022, 12, 257.	3.5	5
142	Realization of Hybrid Silicon core/silicon Nitride Shell Nanodots by LPCVD for NVM Application. Materials Research Society Symposia Proceedings, 2008, 1071, 1.	0.1	4
143	The zero field self-organization of cobalt/surfactant nanocomposite thin films. Nanotechnology, 2009, 20, 225605.	2.6	4
144	Influence of Thermal Annealing on Ohmic Contacts and Device Isolation in AlGaN/GaN Heterostructures. Materials Science Forum, 2009, 615-617, 967-970.	0.3	4

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145	Towards Large Area (111)3C-SiC Films Grown on Off-Oriented (111)Si. Materials Science Forum, 0, 615-617, 149-152.	0.3	4
146	Pattern Transfer of Nanomasks Based on Diblock Copolymers Self-Assembling through Reactive Ion Etching. ECS Journal of Solid State Science and Technology, 2012, 1, Q52-Q56.	1.8	4
147	Micro- and Nano-Scale Electrical Characterization of Epitaxial Graphene on Off-Axis 4H-SiC (0001). Materials Science Forum, 0, 717-720, 637-640.	0.3	4
148	CaCu3Ti4O12 thin films on conductive oxide electrode: A comparative study between chemical and physical vapor deposition routes. Materials Chemistry and Physics, 2012, 133, 1108-1115.	4.0	4
149	Current-induced defect formation in multi-walled carbon nanotubes. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	4
150	Electrical properties and oxygen functionalities in ethanol-treated and thermally modified graphene oxide. Journal of Applied Physics, 2017, 121, 155105.	2.5	4
151	Ni foam electrode solution impregnated with Ni-FeX(OH)Y catalysts for efficient oxygen evolution reaction in alkaline electrolyzers. RSC Advances, 2020, 10, 25426-25434.	3.6	4
152	Mechanism of stacking fault annihilation in 3C-SiC epitaxially grown on Si(001) by molecular dynamics simulations. CrystEngComm, 2021, 23, 1566-1571.	2.6	4
153	Towards fabrication of ordered gallium nanostructures by laser manipulation of neutral atoms: study of self-assembling phenomena. Superlattices and Microstructures, 2004, 36, 219-226.	3.1	3
154	The influence of hydrogen and nitrogen on the formation of Si nanoclusters embedded in sub-stoichiometric silicon oxide layers. Microelectronics Reliability, 2007, 47, 777-780.	1.7	3
155	Correlation Study of Morphology, Electrical Activation and Contact formation of Ion Implanted 4H-SiC. Solid State Phenomena, 0, 156-158, 493-498.	0.3	3
156	A Template Metal-Organic Chemical Vapour Deposition Route to the Fabrication of Free Standing Co₃O₄ Nanotube Arrays. Nanoscience and Nanotechnology Letters, 2009, 1, 87-92.	0.4	3
157	Crystallization of ion amorphized Ge2Sb2Te5 in nano-structured thin films. Materials Research Society Symposia Proceedings, 2010, 1251, 3.	0.1	3
158	Temperature Dependent Structural Evolution of Graphene Layers on 4H-SiC(0001). Materials Science Forum, 0, 679-680, 797-800.	0.3	3
159	Structural Characterization of Graphene Grown by Thermal Decomposition of Off-Axis 4H-SiC (0001). Materials Science Forum, 0, 711, 141-148.	0.3	3
160	On the determination of diameter distribution in multiâ€wall carbon nanotubes by Raman spectroscopy: issues related to excitation laser energy. Journal of Raman Spectroscopy, 2012, 43, 1018-1023.	2.5	3
161	Study of Ti/Al/Ni Ohmic Contacts to p-Type Implanted 4H-SiC. Materials Science Forum, 0, 924, 377-380.	0.3	3
162	New insight into Pt nucleation mechanism on Si surface during galvanic displacement deposition. Journal of Physics and Chemistry of Solids, 2021, 148, 109722.	4.0	3

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163	Surface Plasmons in Silicon Nanowires. Advanced Photonics Research, 2021, 2, 2100130.	3.6	3
164	Memory effects in MOS capacitors with silicon quantum dots. Materials Science and Engineering C, 2001, 15, 283-285.	7.3	2
165	Tuning the electron transport mechanism inÂmetalÂnanoparticlesÂarrays by the manipulation ofÂtheÂelectronic coupling and structural disorder. Applied Physics A: Materials Science and Processing, 2009, 97, 63-72.	2.3	2
166	A Study of Structural Defects in 3C-SiC Hetero-Epitaxial Films. Materials Science Forum, 0, 645-648, 371-374.	0.3	2
167	Atomic structure of metal-free and catalyzed Si nanowires. Materials Research Society Symposia Proceedings, 2011, 1305, 1.	0.1	2
168	Surface Corrugation and Stacking Misorientation in Multilayers of Graphene on Nickel. Solid State Phenomena, 2011, 178-179, 125-129.	0.3	2
169	Study of the Impact of Growth and Post-Growth Processes on the Surface Morphology of 4H Silicon Carbide Films. Materials Science Forum, 2012, 717-720, 149-152.	0.3	2
170	Role of the early stages of Ni-Si interaction on the formation of transrotational Ni-silicides. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 164-168.	0.8	2
171	Atomic Layer Deposition of Al₂O₃ Thin Films for Metal Insulator Semiconductor Applications on 4H-SiC. Materials Science Forum, 2016, 858, 685-688.	0.3	2
172	Strategy to discover full-length amyloid-beta peptide ligands using high-efficiency microarray technology. Beilstein Journal of Nanotechnology, 2017, 8, 2446-2453.	2.8	2
173	Nanoscale Insights on the Origin of the Power MOSFETs Breakdown after Extremely Long High Temperature Reverse Bias Stress. Materials Science Forum, 0, 1004, 433-438.	0.3	2
174	Structural and Electrical Characterization of Ni-Based Ohmic Contacts on 4H-SiC Formed by Solid-State Laser Annealing. Materials Science Forum, 0, 1062, 417-421.	0.3	2
175	Temperature Dependent Reaction of Thin Ni-Silicide Transrotational Layers on [001]Si. , 2007, , .		1
176	Impact of Surface Morphology on the Electrical Properties of Al/Ti Ohmic Contacts on Al-Implanted 4H-SiC. Materials Science Forum, 0, 679-680, 413-416.	0.3	1
177	Ion Irradiation on Phase Change Materials. Materials Research Society Symposia Proceedings, 2011, 1354, 73.	0.1	1
178	MAPbI3 Deposition by LV-PSE on TiO2 for Photovoltaic Application. Frontiers in Electronics, 2021, 2, .	3.2	1
179	Early Stages of Aluminum-Doped Zinc Oxide Growth on Silicon Nanowires. Nanomaterials, 2022, 12, 772.	4.1	1
180	Evolution of the Transrotational Structure During Crystallization of Amorphous Ge2Sb2Te5 Thin Films. Materials Research Society Symposia Proceedings, 2009, 1160, 1.	0.1	0

#	Article	IF	Citations
181	Evolution of the Electrical Behaviour of GaN and AlGaN Materials after High Temperature Annealing and Thermal Oxidation. Materials Science Forum, 2010, 645-648, 1211-1214.	0.3	0
182	Local Order and Crystallization of Laser Quenched and Ion Implanted Amorphous Ge1-xTex Thin Films. Materials Research Society Symposia Proceedings, 2010, 1251, 8.	0.1	0
183	Single Atom Detection Through HAADF-STEM and EELS/EDX Characterization of Fluorophore Ru(bpy)32+ for Optical DNA-Chip Applications. Microscopy and Microanalysis, 2015, 21, 1429-1430.	0.4	0
184	Ni₂Si/4H-SiC Schottky Photodiodes for Ultraviolet Light Detection. Materials Science Forum, 2016, 858, 1015-1018.	0.3	0
185	Charge Trapping Mechanisms in Nitridated SiO₂/ 4H-SiC MOSFET Interfaces: Threshold Voltage Instability and Interface Chemistry. Materials Science Forum, 0, 1062, 160-164.	0.3	0