

Corrado Bongiorno

List of Publications by Year in descending order

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185
papers

3,880
citations

136950

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182427

51
g-index

185
all docs

185
docs citations

185
times ranked

4981
citing authors

#	ARTICLE	IF	CITATIONS
1	Photo-Fenton Degradation of Methyl Orange with Dunino Halloysite as a Source of Iron. Catalysts, 2022, 12, 257.	3.5	5
2	Early Stages of Aluminum-Doped Zinc Oxide Growth on Silicon Nanowires. Nanomaterials, 2022, 12, 772.	4.1	1
3	Blackâ€Yellow Bandgap Tradeâ€Off During Thermal Stability Tests in Lowâ€Temperature Euâ€Doped CsPbI ₃ . Solar Rrl, 2022, 6, .	5.8	8
4	Synthesis of MIL-Modified Fe ₃ O ₄ Magnetic Nanoparticles for Enhancing Uptake and Efficiency of Temozolomide in Glioblastoma Treatment. International Journal of Molecular Sciences, 2022, 23, 2874.	4.1	12
5	Impact of Nitrogen on the Selective Closure of Stacking Faults in 3C-SiC. Crystal Growth and Design, 2022, 22, 4996-5003.	3.0	6
6	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
7	Inter-diffusion, melting and reaction interplay in Ni/4H-SiC under excimer laser annealing. Applied Surface Science, 2021, 539, 148218.	6.1	7
8	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
9	Formation of CsPbI ₃ Î³â€Phase at 80â€%â€C by Europiumâ€Assisted Snowplow Effect. Advanced Energy and Sustainability Research, 2021, 2, 2100091.	5.8	8
10	Exploring the Structural Competition between the Black and the Yellow Phase of CsPbI ₃ . Nanomaterials, 2021, 11, 1282.	4.1	12
11	Systematic Characterization of Plasma-Etched Trenches on 4H-SiC Wafers. ACS Omega, 2021, 6, 20667-20675.	3.5	5
12	Structural Characterization and Adsorption Properties of Dunino Raw Halloysite Mineral for Dye Removal from Water. Materials, 2021, 14, 3676.	2.9	16
13	Extended defects in 3C-SiC: Stacking faults, threading partial dislocations, and inverted domain boundaries. Acta Materialia, 2021, 213, 116915.	7.9	26
14	Development of Chitosan/Cyclodextrin Nanospheres for Levofloxacin Ocular Delivery. Pharmaceutics, 2021, 13, 1293.	4.5	22
15	Interfacial electrical and chemical properties of deposited SiO ₂ layers in lateral implanted 4H-SiC MOSFETs subjected to different nitridations. Applied Surface Science, 2021, 557, 149752.	6.1	16
16	Simulations of the Ultra-Fast Kinetics in Ni-Si-C Ternary Systems under Laser Irradiation. Materials, 2021, 14, 4769.	2.9	6
17	MAPbI ₃ Deposition by LV-PSE on TiO ₂ for Photovoltaic Application. Frontiers in Electronics, 2021, 2, .	3.2	1
18	New Approaches and Understandings in the Growth of Cubic Silicon Carbide. Materials, 2021, 14, 5348.	2.9	34

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19	Barrier height tuning in Ti/4H-SiC Schottky diodes. Solid-State Electronics, 2021, 186, 108042.	1.4	13
20	Surface Plasmons in Silicon Nanowires. Advanced Photonics Research, 2021, 2, 2100130.	3.6	3
21	Ni/4H-SiC interaction and silicide formation under excimer laser annealing for ohmic contact. Materialia, 2020, 9, 100528.	2.7	12
22	Crystallization properties of melt-quenched Ge-rich GeSbTe thin films for phase change memory applications. Journal of Applied Physics, 2020, 128, .	2.5	19
23	Ultralow loading electroless deposition of IrO _x on nickel foam for efficient and stable water oxidation catalysis. International Journal of Hydrogen Energy, 2020, 45, 26583-26594.	7.1	11
24	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
25	Thermal annealing effect on electrical and structural properties of Tungsten Carbide Schottky contacts on AlGa _N /Ga _N heterostructures. Semiconductor Science and Technology, 2020, 35, 105004.	2.0	6
26	Trehalose Conjugates of Silybin as Prodrugs for Targeting Toxic A β Aggregates. ACS Chemical Neuroscience, 2020, 11, 2566-2576.	3.5	20
27	TiO ₂ Colloids Laser-Treated in Ethanol for Photocatalytic H ₂ Production. ACS Applied Nano Materials, 2020, 3, 9127-9140.	5.0	14
28	Generation and Termination of Stacking Faults by Inverted Domain Boundaries in 3C-SiC. Crystal Growth and Design, 2020, 20, 3104-3111.	3.0	14
29	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
30	Genesis and evolution of extended defects: The role of evolving interface instabilities in cubic SiC. Applied Physics Reviews, 2020, 7, 021402.	11.3	35
31	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
32	Correlating electron trapping and structural defects in Al ₂ O ₃ thin films deposited by plasma enhanced atomic layer deposition. AIP Advances, 2020, 10, .	1.3	11
33	Nanostructured TiO ₂ Grown by Low-Temperature Reactive Sputtering for Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 6218-6229.	5.1	27
34	Metal/Semiconductor Barrier Properties of Non-Recessed Ti/Al/Ti and Ta/Al/Ta Ohmic Contacts on AlGa _N /Ga _N Heterostructures. Energies, 2019, 12, 2655.	3.1	12
35	New Synthetic Route for the Growth of $\hat{\pm}$ -FeOOH/NH ₂ -Mil-101 Films on Copper Foil for High Surface Area Electrodes. ACS Omega, 2019, 4, 18495-18501.	3.5	8
36	Bimodal Porosity and Stability of a TiO ₂ Gig-Lox Sponge Infiltrated with Methyl-Ammonium Lead Iodide Perovskite. Nanomaterials, 2019, 9, 1300.	4.1	7

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37	Ohmic contacts on n-type and p-type cubic silicon carbide (3C-SiC) grown on silicon. <i>Materials Science in Semiconductor Processing</i> , 2019, 93, 295-298.	4.0	13
38	Study on the Physico-Chemical Properties of the Si Nanowires Surface. <i>Nanomaterials</i> , 2019, 9, 818.	4.1	7
39	Ni(OH) ₂ @Ni core-shell nanochains as low-cost high-rate performance electrode for energy storage applications. <i>Scientific Reports</i> , 2019, 9, 7736.	3.3	41
40	Pb clustering and PbI ₂ nanofragmentation during methylammonium lead iodide perovskite degradation. <i>Nature Communications</i> , 2019, 10, 2196.	12.8	116
41	Direct observation of single organic molecules grafted on the surface of a silicon nanowire. <i>Scientific Reports</i> , 2019, 9, 5647.	3.3	10
42	Morphological and electrical properties of Nickel based Ohmic contacts formed by laser annealing process on n-type 4H-SiC. <i>Materials Science in Semiconductor Processing</i> , 2019, 97, 62-66.	4.0	25
43	Structural and electrical properties of AlN thin films on GaN substrates grown by plasma enhanced-Atomic Layer Deposition. <i>Materials Science in Semiconductor Processing</i> , 2019, 97, 35-39.	4.0	11
44	Direct Growth on Si(100) of Isolated Octahedral Mil-101(Fe) Crystals for the Separation of Aromatic Vapors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28836-28845.	3.1	16
45	3C-SiC Growth on Inverted Silicon Pyramids Patterned Substrate. <i>Materials</i> , 2019, 12, 3407.	2.9	12
46	Chemical Vapor Deposition Growth of Silicon Nanowires with Diameter Smaller Than 5 nm. <i>ACS Omega</i> , 2019, 4, 17967-17971.	3.5	42
47	Laser ablation synthesis of mono- and bimetallic Pt and Pd nanoparticles and fabrication of Pt-Pd/Graphene nanocomposites. <i>Applied Surface Science</i> , 2019, 475, 494-503.	6.1	43
48	Simulation of the Growth Kinetics in Group IV Compound Semiconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1800597.	1.8	6
49	Two-dimensional defect mapping of the SiO_2/Si interface. <i>Physical Review Materials</i> , 2019, 3, .	2.4	19
50	Temperature-dependent Fowler-Nordheim electron barrier height in SiO ₂ /4H-SiC MOS capacitors. <i>Materials Science in Semiconductor Processing</i> , 2018, 78, 38-42.	4.0	27
51	From thin film to bulk 3C-SiC growth: Understanding the mechanism of defects reduction. <i>Materials Science in Semiconductor Processing</i> , 2018, 78, 57-68.	4.0	99
52	Innovative spongy TiO ₂ layers for gas detection at low working temperature. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 658-667.	7.8	23
53	Atomic diffusion in laser irradiated Ge rich GeSbTe thin films for phase change memory applications. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 145103.	2.8	13
54	Bi_2O_3 reduction by laser irradiation in a liquid environment. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10292-10301.	2.8	13

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55	Modification of the sheet resistance under Ti/Al/Ni/Au Ohmic contacts on AlGaIn/GaN heterostructures. <i>Materials Science in Semiconductor Processing</i> , 2018, 78, 111-117.	4.0	13
56	Functionalization of Bulk SiO ₂ Surface with Biomolecules for Sensing Applications: Structural and Functional Characterizations. <i>Chemosensors</i> , 2018, 6, 59.	3.6	26
57	Electron trapping at SiO ₂ /4H-SiC interface probed by transient capacitance measurements and atomic resolution chemical analysis. <i>Nanotechnology</i> , 2018, 29, 395702.	2.6	22
58	Protrusions reduction in 3C-SiC thin film on Si. <i>Journal of Crystal Growth</i> , 2018, 498, 248-257.	1.5	24
59	Oxygen Functionalities Evolution in Thermally Treated Graphene Oxide Featured by EELS and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5408-5414.	3.1	40
60	Electrical properties and oxygen functionalities in ethanol-treated and thermally modified graphene oxide. <i>Journal of Applied Physics</i> , 2017, 121, 155105.	2.5	4
61	Silicon nitride surfaces as active substrate for electrical DNA biosensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 492-502.	7.8	18
62	Electrical and structural properties of surfaces and interfaces in Ti/Al/Ni Ohmic contacts to p-type implanted 4H-SiC. <i>Applied Surface Science</i> , 2017, 420, 331-335.	6.1	30
63	Inhibition of A β Amyloid Growth and Toxicity by Silybins: The Crucial Role of Stereochemistry. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1767-1778.	3.5	72
64	Ambipolar MoS ₂ Transistors by Nanoscale Tailoring of Schottky Barrier Using Oxygen Plasma Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23164-23174.	8.0	81
65	Chemical and structural arrangement of the trigonal phase in GeSbTe thin films. <i>Nanotechnology</i> , 2017, 28, 065706.	2.6	39
66	Photo-electrochemical water splitting in silicon based photocathodes enhanced by plasmonic/catalytic nanostructures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 225, 128-133.	3.5	13
67	Pervasive infiltration and multi-branch chemisorption of N-719 molecules into newly designed spongy TiO ₂ layers deposited by gig-lox sputtering processes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25529-25538.	10.3	12
68	Strategy to discover full-length amyloid-beta peptide ligands using high-efficiency microarray technology. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 2446-2453.	2.8	2
69	Multi-Scale-Porosity TiO ₂ scaffolds grown by innovative sputtering methods for high throughput hybrid photovoltaics. <i>Scientific Reports</i> , 2016, 6, 39509.	3.3	34
70	Atomic Layer Deposition of Al ₂ O ₃ Thin Films for Metal Insulator Semiconductor Applications on 4H-SiC. <i>Materials Science Forum</i> , 2016, 858, 685-688.	0.3	2
71	Ni ₂ /Si/4H-SiC Schottky Photodiodes for Ultraviolet Light Detection. <i>Materials Science Forum</i> , 2016, 858, 1015-1018.	0.3	0
72	Effects of Annealing Treatments on the Properties of Al/Ti/p-GaN Interfaces for Normally OFF p-GaN HEMTs. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 2735-2741.	3.0	55

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73	Nanoscale surface modification of Mt. Etna volcanic ashes. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 174, 70-84.	3.9	35
74	Photo-physical characterization of fluorophore Ru(bpy) 3 2+ for optical biosensing applications. <i>Sensing and Bio-Sensing Research</i> , 2015, 6, 67-71.	4.2	23
75	Similar Structural Dynamics for the Degradation of CH ₃ NH ₃ Pb ₃ in Air and in Vacuum. <i>ChemPhysChem</i> , 2015, 16, 3064-3071.	2.1	80
76	Single Atom Detection Through HAADF-STEM and EELS/EDX Characterization of Fluorophore Ru(bpy) ₃ ²⁺ for Optical DNA-Chip Applications. <i>Microscopy and Microanalysis</i> , 2015, 21, 1429-1430.	0.4	0
77	Electrical and structural properties of Ti/Al-based contacts on AlGaIn/GaN heterostructures with different quality. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1091-1098.	1.8	5
78	Conductive filament structure in HfO ₂ resistive switching memory devices. <i>Solid-State Electronics</i> , 2015, 111, 161-165.	1.4	46
79	Low temperature sputtered TiO ₂ nano sheaths on electrospun PES fibers as high porosity photoactive material. <i>RSC Advances</i> , 2015, 5, 73444-73450.	3.6	14
80	Electron energy-loss spectra of graphene oxide for the determination of oxygen functionalities. <i>Carbon</i> , 2015, 93, 1034-1041.	10.3	36
81	Molecular doping applied to Si nanowires array based solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 118-122.	6.2	37
82	Comparative study of gate oxide in 4H-SiC lateral MOSFETs subjected to post-deposition-annealing in N ₂ O and POCl ₃ . <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 333-339.	2.3	35
83	Current-induced defect formation in multi-walled carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	4
84	Thermally induced structural modifications of nano-sized anatase films and the effects on the dye-TiO ₂ surface interactions. <i>Applied Surface Science</i> , 2014, 296, 69-78.	6.1	13
85	Ti/Al ohmic contacts on AlGaIn/GaN heterostructures with different defect density. <i>Applied Surface Science</i> , 2014, 314, 546-551.	6.1	27
86	A strategy to stabilise the local structure of Ti ⁴⁺ and Zn ²⁺ species against aging in TiO ₂ /aluminium-doped ZnO bi-layers for applications in hybrid solar cells. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	5
87	Anatase/Rutile nucleation and growth on (0002) and (11-20) oriented ZnO:Al/glass substrates at 150°C. <i>Thin Solid Films</i> , 2014, 555, 3-8.	1.8	19
88	Efficiency Enhancement in ZnO:Al-Based Dye-Sensitized Solar Cells Structured with Sputtered TiO ₂ Blocking Layers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6576-6585.	3.1	29
89	Role of the early stages of Ni-Si interaction on the formation of transrotational Ni-silicides. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 164-168.	0.8	2
90	Light scattering calculations from Au and Au/SiO ₂ core/shell nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 47, 25-33.	2.7	9

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91	Nanoporous Ge coated by Au nanoparticles for electrochemical application. <i>Electrochemistry Communications</i> , 2013, 30, 83-86.	4.7	6
92	Microscopy study of the conductive filament in HfO ₂ resistive switching memory devices. <i>Microelectronic Engineering</i> , 2013, 109, 75-78.	2.4	78
93	Nanofabrication processes for innovative nanohole-based solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1564-1570.	1.8	10
94	Nanoporous Ge electrode as a template for nano-sized ($\leq 5\text{ nm}$) Au aggregates. <i>Nanotechnology</i> , 2012, 23, 395604.	2.6	13
95	Study of the Impact of Growth and Post-Growth Processes on the Surface Morphology of 4H Silicon Carbide Films. <i>Materials Science Forum</i> , 2012, 717-720, 149-152.	0.3	2
96	Crystallization of Nanometer Ge ₂ Sb ₂ Te ₅ Amorphous Regions Embedded in the Hexagonal Close Packed Structure. <i>Electrochemical and Solid-State Letters</i> , 2012, 15, H105.	2.2	5
97	Pattern Transfer of Nanomasks Based on Diblock Copolymers Self-Assembling through Reactive Ion Etching. <i>ECS Journal of Solid State Science and Technology</i> , 2012, 1, Q52-Q56.	1.8	4
98	Morphological and Electrical Characterization of Electrically Trimmable Thin-Film Resistors. <i>IEEE Transactions on Electron Devices</i> , 2012, 59, 3549-3554.	3.0	9
99	Fiber texturing in nano-crystalline TiO ₂ thin films deposited at 150Â°C by dc-reactive sputtering on fiber-textured [001] ZnO:Al substrates. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 4355301.		
100	TiO ₂ Nanofibrous Chemoresistors Coated with PEDOT and PANi Blends for High Performance Gas Sensors. <i>Procedia Engineering</i> , 2012, 47, 937-940.	1.2	10
101	Towards a laser fluence dependent nanostructuring of thin Au films on Si by nanosecond laser irradiation. <i>Applied Surface Science</i> , 2012, 258, 9128-9137.	6.1	37
102	On the determination of diameter distribution in multi-wall carbon nanotubes by Raman spectroscopy: issues related to excitation laser energy. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 1018-1023.	2.5	3
103	Role of the Support and the Ru Precursor on the Performance of Ru/Carbon Catalysts Towards H ₂ Production Through NaBH ₄ Hydrolysis. <i>Catalysis Letters</i> , 2012, 142, 882-888.	2.6	38
104	Effect of the liquid environment on the formation of carbon nanotubes and graphene layers by arcing processes. <i>Carbon</i> , 2012, 50, 2365-2369.	10.3	17
105	CaCu ₃ Ti ₄ O ₁₂ thin films on conductive oxide electrode: A comparative study between chemical and physical vapor deposition routes. <i>Materials Chemistry and Physics</i> , 2012, 133, 1108-1115.	4.0	4
106	Formation of nanoparticles from laser irradiated Au thin film on SiO ₂ /Si: Elucidating the Rayleigh-instability role. <i>Materials Letters</i> , 2012, 84, 27-30.	2.6	49
107	Schottky Barrier Inhomogeneities in Nickel Silicide Transrotational Contacts. <i>Applied Physics Express</i> , 2011, 4, 115701.	2.4	7
108	Nanoscale electro-structural characterisation of ohmic contacts formed on p-type implanted 4H-SiC. <i>Nanoscale Research Letters</i> , 2011, 6, 158.	5.7	10

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109	Nanoscale structural characterization of epitaxial graphene grown on off-axis 4H-SiC (0001). Nanoscale Research Letters, 2011, 6, 269.	5.7	50
110	Atomic structure of metal-free and catalyzed Si nanowires. Materials Research Society Symposia Proceedings, 2011, 1305, 1.	0.1	2
111	Amorphous-Crystal Phase Transitions in $\text{Ge}_x\text{Te}_{1-x}$ Alloys. Journal of the Electrochemical Society, 2011, 159, H130-H139.	2.9	32
112	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
113	Ion Irradiation on Phase Change Materials. Materials Research Society Symposia Proceedings, 2011, 1354, 73.	0.1	1
114	Surface Corrugation and Stacking Misorientation in Multilayers of Graphene on Nickel. Solid State Phenomena, 2011, 178-179, 125-129.	0.3	2
115	Structural defects and device electrical behaviour in AlGaIn/GaN heterostructures grown on 8° off-axis 4H-SiC. Applied Physics A: Materials Science and Processing, 2010, 100, 197-202.	2.3	9
116	Morphological and electrical characterization of SixCryCzBv thin films. Microelectronic Engineering, 2010, 87, 430-433.	2.4	7
117	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
118	High-quality 6inch (111) 3C-SiC films grown on off-axis (111) Si substrates. Thin Solid Films, 2010, 518, S165-S169.	1.8	61
119	Evolution of the Electrical Behaviour of GaN and AlGaIn Materials after High Temperature Annealing and Thermal Oxidation. Materials Science Forum, 2010, 645-648, 1211-1214.	0.3	0
120	Crystallization of ion amorphized $\text{Ge}_2\text{Sb}_2\text{Te}_5$ in nano-structured thin films. Materials Research Society Symposia Proceedings, 2010, 1251, 3.	0.1	3
121	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
122	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
123	Crystallization of ion amorphized $\text{Ge}_2\text{Sb}_2\text{Te}_5$ thin films in presence of cubic or hexagonal phase. Journal of Applied Physics, 2010, 107, .	2.5	23
124	Synthesis of crystalline Si quantum dots by millisecond laser irradiation of SiO_xN_y layers. Journal of Applied Physics, 2010, 107, 023703.	2.5	9
125	Local Order and Crystallization of Laser Quenched and Ion Implanted Amorphous $\text{Ge}_{1-x}\text{Te}_x$ Thin Films. Materials Research Society Symposia Proceedings, 2010, 1251, 8.	0.1	0
126	Local Order and Crystallization of Laser Quenched and Ion Implanted Amorphous $\text{Ge}_{1-x}\text{Te}_x$ Thin Films. Electrochemical and Solid-State Letters, 2010, 13, H317.	2.2	11

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127	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
128	Low temperature formation and evolution of a 10 nm amorphous Ni ⁴⁺ Si layer on [001] silicon studied by <i>in situ</i> transmission electron microscopy. Journal of Applied Physics, 2009, 105, .	2.5	12
129	Preferential oxidation of stacking faults in epitaxial off-axis (111) 3C-SiC films. Applied Physics Letters, 2009, 95, 111905.	3.3	24
130	Crystallization of sputtered-deposited and ion implanted amorphous Ge ₂ Sb ₂ Te ₅ thin films. Journal of Applied Physics, 2009, 105, .	2.5	27
131	The zero field self-organization of cobalt/surfactant nanocomposite thin films. Nanotechnology, 2009, 20, 225605.	2.6	4
132	Influence of Thermal Annealing on Ohmic Contacts and Device Isolation in AlGaIn/GaN Heterostructures. Materials Science Forum, 2009, 615-617, 967-970.	0.3	4
133	Evolution of the Transrotational Structure During Crystallization of Amorphous Ge ₂ Sb ₂ Te ₅ Thin Films. Materials Research Society Symposia Proceedings, 2009, 1160, 1.	0.1	0
134	A Template Metal-Organic Chemical Vapour Deposition Route to the Fabrication of Free Standing Co ₃ O ₄ Nanotube Arrays. Nanoscience and Nanotechnology Letters, 2009, 1, 87-92.	0.4	3
135	Tuning the electron transport mechanism in metal nanoparticles arrays by the manipulation of the electronic coupling and structural disorder. Applied Physics A: Materials Science and Processing, 2009, 97, 63-72.	2.3	2
136	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
137	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
138	Nano-patterning with Block Copolymers. Superlattices and Microstructures, 2008, 44, 693-698.	3.1	13
139	Photochemical synthesis of copper nanoparticles incorporated in poly(vinyl pyrrolidone). Journal of Nanoparticle Research, 2008, 10, 1183-1192.	1.9	61
140	Microstructure of Au nanoclusters formed in and on SiO ₂ . Superlattices and Microstructures, 2008, 44, 588-598.	3.1	33
141	Surface effects on the growth of solution processed pentacene thin films. Surface Science, 2008, 602, 993-1005.	1.9	14
142	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
143	Heteroepitaxial growth of (111) 3C-SiC on (110) Si substrate by second order twins. Applied Physics Letters, 2008, 92, 224102.	3.3	20
144	Localized electrical characterization of the giant permittivity effect in CaCu ₃ Ti ₄ O ₁₂ ceramics. Applied Physics Letters, 2008, 92, .	3.3	48

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145	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
146	Two-dimensional electron gas insulation by local surface thin thermal oxidation in AlGaIn/GaN heterostructures. Applied Physics Letters, 2008, 92, 252101.	3.3	14
147	Formation, evolution and photoluminescence properties of Si nanoclusters. Journal of Physics Condensed Matter, 2007, 19, 225003.	1.8	29
148	Role of the internal strain on the incomplete Si/SiO ₂ phase separation in substoichiometric silicon oxide films. Applied Physics Letters, 2007, 90, 183101.	3.3	22
149	Interface roughening and defect nucleation during solid phase epitaxy regrowth of doped and intrinsic Si _{0.83} Ge _{0.17} alloys. Journal of Applied Physics, 2007, 101, 103508.	2.5	5
150	Temperature Dependent Reaction of Thin Ni-Silicide Transrotational Layers on [001]Si. , , .		1
151	Efficient Luminescence and Energy Transfer in Erbium Silicate Thin Films. Advanced Materials, 2007, 19, 1582-1588.	21.0	124
152	Pulsed laser deposition of multiwalled carbon nanotubes thin films. Applied Surface Science, 2007, 254, 1260-1263.	6.1	20
153	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
154	Nickel nanostructured materials from liquid phase photodeposition. Journal of Nanoparticle Research, 2007, 9, 611-619.	1.9	16
155	Effect of surrounding environment on atomic structure and equilibrium shape of growing nanocrystals: gold in/on SiO ₂ . Nanoscale Research Letters, 2007, 2, 240-247.	5.7	10
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