

Giuseppe Maruccio

List of Publications by Year in descending order

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148
papers

3,349
citations

136950

32
h-index

175258

52
g-index

153
all docs

153
docs citations

153
times ranked

5075
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoarchitectonics of highly sensitive and with large working range 3D piezoresistive microporous foam based on carbon nanotubes and elastomer. <i>Journal of Colloid and Interface Science</i> , 2022, 607, 1436-1445.	9.4	12
2	Detection of Ampelovirus and Nepovirus by Lab-on-a-Chip: A Promising Alternative to ELISA Test for Large Scale Health Screening of Grapevine. <i>Biosensors</i> , 2022, 12, 147.	4.7	7
3	Testing of planar hydrogenated amorphous silicon sensors with charge selective contacts for the construction of 3D-detectors. <i>Journal of Instrumentation</i> , 2022, 17, C03033.	1.2	3
4	Polydopamine-Coated Magnetic Iron Oxide Nanoparticles: From Design to Applications. <i>Nanomaterials</i> , 2022, 12, 1145.	4.1	29
5	Miniaturized Sensors for Detection of Ethanol in Water Based on Electrical Impedance Spectroscopy and Resonant Perturbation Method—A Comparative Study. <i>Sensors</i> , 2022, 22, 2742.	3.8	5
6	Nanoplasmonic Biosensing Approach for Endotoxin Detection in Pharmaceutical Field. <i>Chemosensors</i> , 2021, 9, 10.	3.6	9
7	Advances in Plant Disease Detection and Monitoring: From Traditional Assays to In-Field Diagnostics. <i>Sensors</i> , 2021, 21, 2129.	3.8	76
8	Femtomolar Biodetection by a Compact Core-Shell 3D Chiral Metamaterial. <i>Nano Letters</i> , 2021, 21, 6179-6187.	9.1	26
9	Sustainable chitosan-based electrical responsive scaffolds for tissue engineering applications. <i>Sustainable Materials and Technologies</i> , 2021, 28, e00260.	3.3	5
10	Fabrication of a Hydrogenated Amorphous Silicon Detector in 3-D Geometry and Preliminary Test on Planar Prototypes. <i>Instruments</i> , 2021, 5, 32.	1.8	8
11	Validation of a Lab-on-Chip Assay for Measuring Sorafenib Effectiveness on HCC Cell Proliferation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13090.	4.1	8
12	Sperm selection in assisted reproduction: A review of established methods and cutting-edge possibilities. <i>Biotechnology Advances</i> , 2020, 40, 107498.	11.7	52
13	Advances in the Development of Innovative Sensor Platforms for Field Analysis. <i>Micromachines</i> , 2020, 11, 491.	2.9	13
14	Pectobacterium atrosepticum Biosensor for Monitoring Blackleg and Soft Rot Disease of Potato. <i>Biosensors</i> , 2020, 10, 64.	4.7	12
15	Centrifugation Force and Time Alter CASA Parameters and Oxidative Status of Cryopreserved Stallion Sperm. <i>Biology</i> , 2020, 9, 22.	2.8	7
16	Identification and time-resolved study of ferrimagnetic spin-wave modes in a microwave cavity in the strong-coupling regime. <i>Physical Review B</i> , 2020, 101, .	3.2	9
17	Tunable Near-Infrared Localized Surface Plasmon Resonance of F, In-Codoped CdO Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39921-39929.	8.0	31
18	Organised Colloidal Metal Nanoparticles for LSPR Refractive Index Transducers. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 173-179.	0.4	0

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19	The Impact of Career Insight in the Relation with Social Networks and Career Self-Management: Preliminary Evidences from the Italian Contamination Lab. Sustainability, 2019, 11, 5996.	3.2	9
20	Picomolar detection of retinol binding protein 4 for early management of type II diabetes. Biosensors and Bioelectronics, 2019, 128, 122-128.	10.1	29
21	Dielectric and Ferroelectric Response of Multiphase Bi α Fe α O Ceramics. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800584.	1.8	3
22	Frequency and time domain analysis of surface acoustic wave propagation on a piezoelectric gallium arsenide substrate: A computational insight. Journal of Intelligent Material Systems and Structures, 2019, 30, 801-812.	2.5	1
23	RF and microwave dielectric response investigation of high-k yttrium copper titanate ceramic for electronic applications. Microelectronic Engineering, 2018, 194, 15-18.	2.4	3
24	Dielectrical performance of high-k yttrium copper titanate thin films for electronic applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 7090-7098.	2.2	9
25	Facile synthesis of 3D flower-like Pt nanostructures on polypyrrole nanowire matrix for enhanced methanol oxidation. RSC Advances, 2018, 8, 10367-10375.	3.6	10
26	Interaction-tailored organization of large-area colloidal assemblies. Beilstein Journal of Nanotechnology, 2018, 9, 1582-1593.	2.8	13
27	Lab-on-Chip for Exosomes and Microvesicles Detection and Characterization. Sensors, 2018, 18, 3175.	3.8	107
28	Key Enabling Technologies for Point-of-Care Diagnostics. Sensors, 2018, 18, 3607.	3.8	61
29	Optimization of SAW and EIS sensors suitable for environmental particulate monitoring. Microelectronic Engineering, 2018, 202, 31-36.	2.4	16
30	Performance of the diamond active target prototype for the PADME experiment at the DA α NE BTf. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 898, 105-110.	1.6	9
31	Lab on chip for life science: From medical diagnostics to food quality control. , 2018, , .		1
32	An Innovative Porous Nanocomposite Material for the Removal of Phenolic Compounds from Aqueous Solutions. Nanomaterials, 2018, 8, 334.	4.1	24
33	High-k YCTO thin films for electronics. , 2018, , .		0
34	Development of a lab-on-a-chip method for rapid assay of Xylella fastidiosa subsp. pauca strain CoDiRO. Scientific Reports, 2018, 8, 7376.	3.3	34
35	Simplified preparation and characterization of magnetic hydroxyapatite-based nanocomposites. Materials Science and Engineering C, 2017, 76, 1166-1174.	7.3	15
36	Diamond graphitization by laser-writing for all-carbon detector applications. Diamond and Related Materials, 2017, 75, 25-33.	3.9	26

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37	An innovative, fast and facile soft-template approach for the fabrication of porous PDMS for "water separation. Journal of Materials Chemistry A, 2017, 5, 23785-23793.	10.3	59
38	A simple approach to synthesize folic acid decorated magnetite@SiO ₂ nanostructures for hyperthermia applications. Journal of Materials Chemistry B, 2017, 5, 7547-7556.	5.8	16
39	All-electrochemical approach for the assembly of platinum nanoparticles/polypyrrole nanowire composite with electrocatalytic effect on dopamine oxidation. Journal of Solid State Electrochemistry, 2017, 21, 3495-3504.	2.5	21
40	Excitation and time resolved spectroscopy of SAW harmonics up to GHz regime in photolithographed GaAs devices. Journal of Micromechanics and Microengineering, 2017, 27, 125002.	2.6	9
41	Micro- and nanotechnology-based approaches to detect pathogenic agents in food. , 2017, , 475-510.		4
42	Continuous-Flow Production of Injectable Liposomes via a Microfluidic Approach. Materials, 2017, 10, 1411.	2.9	42
43	Synthesis and Characterization of Mixed Iron-Manganese Oxide Nanoparticles and Their Application for Efficient Nickel Ion Removal from Aqueous Samples. Journal of Analytical Methods in Chemistry, 2017, 2017, 1-9.	1.6	15
44	Low cost lithographic fabrication of tunable plasmonic nanostructures. , 2017, , .		0
45	Investigation of high-kyttrium copper titanate thin films as alternative gate dielectrics. Journal Physics D: Applied Physics, 2016, 49, 405303.	2.8	6
46	Fabrication of interconnected multilevel channels in a monolithic SU-8 structure using a LOR sacrificial layer. Microelectronic Engineering, 2016, 164, 30-35.	2.4	20
47	Characterization of surface graphitic electrodes made by excimer laser on CVD diamond. Diamond and Related Materials, 2016, 65, 137-143.	3.9	15
48	A multipurpose biochip for food pathogen detection. Analytical Methods, 2016, 8, 3055-3060.	2.7	37
49	Dielectric investigation of high-k yttrium copper titanate thin films. Journal of Materials Chemistry C, 2016, 4, 1080-1087.	5.5	24
50	Simultaneous detection of multiple lower genital tract pathogens by an impedimetric immunohip. Biosensors and Bioelectronics, 2016, 79, 9-14.	10.1	22
51	Optical analysis of Cr-doped ITO films deposited by double-target laser ablation. Journal of Luminescence, 2015, 162, 155-163.	3.1	7
52	Colloidal lithography fabrication of tunable plasmonic nanostructures. , 2015, , .		1
53	One step preparation of quantum dot-embedded lipid nanovesicles by a microfluidic device. RSC Advances, 2015, 5, 98576-98582.	3.6	9
54	Portable gliadin-immunohip for contamination control on the food production chain. Talanta, 2015, 142, 57-63.	5.5	38

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55	Rapid method for the interconnection of single nano-objects. <i>Materials Research Express</i> , 2015, 2, 055011.	1.6	0
56	Nanomechanical and electrical properties of Nb thin films deposited on Pb substrates by pulsed laser deposition as a new concept photocathode for superconductor cavities. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 804, 132-136.	1.6	11
57	Non-Biofouling Fluorinated Block Copolymer Coatings for Contact Lenses. <i>Science of Advanced Materials</i> , 2015, 7, 1387-1394.	0.7	11
58	Biosensors for the Detection of Food Pathogens. <i>Foods</i> , 2014, 3, 511-526.	4.3	82
59	Surface chemistry of arenethiolate-capped PbS quantum dots and application as colloiddally stable photovoltaic ink. <i>Thin Solid Films</i> , 2014, 560, 2-9.	1.8	9
60	Evolution of morphology and structure of Pb thin films grown by pulsed laser deposition at different substrate temperatures. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014, 32, 020604.	2.1	1
61	DNA sensors with impedimetric and magnetoresistive transduction — A comparison study. , 2014, , .		0
62	Non-conventional photocathodes based on Cu thin films deposited on Y substrate by sputtering. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 752, 27-32.	1.6	2
63	Cell chips as new tools for cell biology â€œ results, perspectives and opportunities. <i>Lab on A Chip</i> , 2013, 13, 3789.	6.0	50
64	On-chip screening for prostate cancer: an EIS microfluidic platform for contemporary detection of free and total PSA. <i>Analyst, The</i> , 2013, 138, 5404.	3.5	32
65	Optical response of oxygen deficient La 0.7 Sr 0.3 MnO 3 thin films deposited by pulsed laser deposition. <i>Thin Solid Films</i> , 2013, 545, 592-600.	1.8	20
66	Colloidal Arenethiolate-Capped PbS Quantum Dots: Optoelectronic Properties, Self-Assembly, and Application in Solution-Cast Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13305-13317.	3.1	112
67	Towards pancreatic cancer diagnosis using EIS biochips. <i>Lab on A Chip</i> , 2013, 13, 730.	6.0	32
68	Assembly of Iron Oxide Nanocrystal Superstructures. <i>Science of Advanced Materials</i> , 2013, 5, 2015-2020.	0.7	1
69	Improved photovoltaic performances by post-deposition acidic treatments on tetrapod shaped colloidal nanocrystal solids. <i>Nanotechnology</i> , 2012, 23, 305403.	2.6	11
70	Flexible piezoelectric cantilevers fabricated on polyimide substrate. <i>Microelectronic Engineering</i> , 2012, 98, 603-606.	2.4	16
71	Toward quantum-dot cellular automata units: thiolated-carbazole linked bisferrocenes. <i>Nanoscale</i> , 2012, 4, 813-823.	5.6	58
72	Single electron tunneling in large scale nanojunction arrays with bisferroceneâ€œnanoparticle hybrids. <i>Nanoscale</i> , 2012, 4, 2311.	5.6	6

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73	Protein transistors strike gold. <i>Nature Nanotechnology</i> , 2012, 7, 147-148.	31.5	13
74	Exploiting GISAXS for the Study of a 3D Ordered Superlattice of Self-Assembled Colloidal Iron Oxide Nanocrystals. <i>Crystal Growth and Design</i> , 2012, 12, 5505-5512.	3.0	19
75	Spintronics at the Molecular Scale—Progresses and Opportunities. <i>Journal of Spintronics and Magnetic Nanomaterials</i> , 2012, 1, 3-10.	0.2	1
76	Tunneling Magnetoresistance with Sign Inversion in Junctions Based on Iron Oxide Nanocrystal Superlattices. <i>ACS Nano</i> , 2011, 5, 1731-1738.	14.6	34
77	Automatic transwell assay by an EIS cell chip to monitor cell migration. <i>Lab on A Chip</i> , 2011, 11, 4081.	6.0	45
78	LSMO — growing opportunities by PLD and applications in spintronics. <i>Journal of Physics: Conference Series</i> , 2011, 292, 012003.	0.4	27
79	Structural characterization of ultrathin Cr-doped ITO layers deposited by double-target pulsed laser ablation. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 365403.	2.8	10
80	EIS microfluidic chips for flow immunoassay and ultrasensitive cholera toxin detection. <i>Lab on A Chip</i> , 2011, 11, 658-663.	6.0	59
81	Nano-electronics and spintronics with nanoparticles. <i>Journal of Physics: Conference Series</i> , 2011, 292, 012002.	0.4	44
82	$\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ thin films deposited by pulsed laser ablation for spintronic applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1817-1820.	1.8	4
83	International Conference "Trends in Spintronics and Nanomagnetism" (TSN-2010). <i>Journal of Physics: Conference Series</i> , 2011, 292, 011001.	0.4	0
84	Electrical and optical properties of ITO and ITO/Cr-doped ITO films. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 753-758.	2.3	13
85	Real-time monitoring of copper ions-induced cytotoxicity by EIS cell chips. <i>Biosensors and Bioelectronics</i> , 2010, 25, 2711-2716.	10.1	30
86	Scanning Tunneling Spectroscopy of Semiconductor Quantum Dots and Nanocrystals. <i>Nanoscience and Technology</i> , 2010, , 183-216.	1.5	2
87	Mechanical Behaviour of Hybrid Polymer/Semiconductor Microtubes. <i>Ferroelectrics</i> , 2009, 391, 168-174.	0.6	0
88	Cytomechanical and topological investigation of MCF-7 cells by scanning force microscopy. <i>Nanotechnology</i> , 2009, 20, 055103.	2.6	62
89	Biomechanical and proteomic analysis of INF- β -treated astrocytes. <i>Nanotechnology</i> , 2009, 20, 455106.	2.6	11
90	Rectification in Supramolecular Zinc Porphyrin/Fulleropyrrolidine Dyads Self-Organized on Gold(111). <i>ChemPhysChem</i> , 2009, 10, 2633-2641.	2.1	12

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91	Disposable plastic microreactors for genomic analyses. <i>Biomedical Microdevices</i> , 2009, 11, 1289-1295.	2.8	3
92	Wavefunction Mapping of Immobilized InP Semiconductor Nanocrystals. <i>Small</i> , 2009, 5, 808-812.	10.0	12
93	Electrostatic spin crossover effect in polar magnetic molecules. <i>Nature Materials</i> , 2009, 8, 813-817.	27.5	148
94	Development of EIS cell chips and their application for cell analysis. <i>Microelectronic Engineering</i> , 2009, 86, 1477-1480.	2.4	14
95	AlN on polysilicon piezoelectric cantilevers for sensors/actuators. <i>Microelectronic Engineering</i> , 2009, 86, 1204-1207.	2.4	39
96	SFM study of the surface of halogen-bonded hybrid co-crystals containing long-chain perfluorocarbons. <i>CrystEngComm</i> , 2009, 11, 510-515.	2.6	7
97	A nanobiosensor to detect single hybridization events. <i>Analyst</i> , The, 2009, 134, 2458.	3.5	21
98	Nanoelectronic Devices Based on Proteins. <i>Nanostructure Science and Technology</i> , 2009, , 139-166.	0.1	2
99	Interconnection of specific nano-objects by electron beam lithography "A controllable method. <i>Materials Science and Engineering C</i> , 2008, 28, 299-302.	7.3	2
100	Amyloid-like Fibrils in Elastin-Related Polypeptides: Structural Characterization and Elastic Properties. <i>Biomacromolecules</i> , 2008, 9, 796-803.	5.4	68
101	Intrinsic optical nonlinearity in colloidal seeded grown CdSe/CdS nanostructures: Photoinduced screening of the internal electric field. <i>Physical Review B</i> , 2008, 78, .	3.2	91
102	Imaging correlated wave functions of few-electron quantum dots: Theory and scanning tunneling spectroscopy experiments. <i>Journal of Applied Physics</i> , 2007, 101, 081714.	2.5	18
103	Rectifying behaviour of self assembled porphyrin/fullerene dyads on Au(111). <i>Journal of Physics: Conference Series</i> , 2007, 61, 795-799.	0.4	3
104	Charge transport and intrinsic fluorescence in amyloid-like fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18019-18024.	7.1	192
105	Correlation Effects in Wave Function Mapping of Molecular Beam Epitaxy Grown Quantum Dots. <i>Nano Letters</i> , 2007, 7, 2701-2706.	9.1	31
106	Protein Conduction and Negative Differential Resistance in Large-Scale Nanojunction Arrays. <i>Small</i> , 2007, 3, 1184-1188.	10.0	40
107	Fabrication and transport of large-scale molecular tunnel-junction arrays. <i>Microelectronic Engineering</i> , 2007, 84, 1585-1588.	2.4	3
108	Metalloprotein-based electronic nanodevices. , 2006, , 9-23.		0

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109	Field-Emission Breakdown and Electromigration in Insulated Planar Nanoscopic Contacts. IEEE Transactions on Electron Devices, 2006, 53, 2958-2964.	3.0	13
110	Charge transport in disordered films of non-redox proteins. Journal of Chemical Physics, 2006, 125, 021103.	3.0	7
111	Ageing of solid-state protein films: Behavior of azurin at ambient conditions. Chemical Physics Letters, 2005, 404, 59-62.	2.6	8
112	Towards Protein Field-Effect Transistors: Report and Model of a Prototype. Advanced Materials, 2005, 17, 816-822.	21.0	84
113	Electron beam and mechanical lithographies as enabling factors for organic-based device fabrication. Materials Science and Engineering C, 2005, 25, 848-852.	7.3	2
114	Effects of high external electric fields on protein conformation. , 2005, , .		2
115	Azurin for Biomolecular Electronics: a Reliability Study. Japanese Journal of Applied Physics, 2005, 44, 6864-6866.	1.5	6
116	Retention of nativelike conformation by proteins embedded in high external electric fields. Journal of Chemical Physics, 2005, 122, 181102.	3.0	13
117	Polymer nanofibers by soft lithography. Applied Physics Letters, 2005, 87, 123109.	3.3	32
118	Resonant Electron Tunneling Through Azurin in Air and Liquid by Scanning Tunneling Microscopy. IEEE Nanotechnology Magazine, 2005, 4, 637-640.	2.0	9
119	Study of the surface morphology of a cholesteryl tethering system for lipidic bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1714, 93-102.	2.6	3
120	The fabrication of sub-10 nm planar electrodes and their use for a molecule-based transistor. Nanotechnology, 2004, 15, 807-811.	2.6	14
121	Ambipolar transistors based on azurin proteins. IET Nanobiotechnology, 2004, 151, 173.	2.1	8
122	Nano-scaled Biomolecular Field-Effect Transistors: Prototypes and Evaluations. Electroanalysis, 2004, 16, 1853-1862.	2.9	15
123	Self-chemisorption of azurin on functionalized oxide surfaces for the implementation of biomolecular devices. Materials Science and Engineering C, 2004, 24, 563-567.	7.3	9
124	Projecting the nanoworld: Concepts, results and perspectives of molecular electronics. Journal of Materials Chemistry, 2004, 14, 542.	6.7	108
125	Self-assembling of proteins and enzymes at nanoscale for biodevice applications. IET Nanobiotechnology, 2004, 151, 101.	2.1	8
126	Nano-Bio Electronic Devices Based on DNA Bases and Proteins. , 2004, , 225-250.		0

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127	A Protein-Based Three Terminal Electronic Device. <i>Annals of the New York Academy of Sciences</i> , 2003, 1006, 187-197.	3.8	11
128	Planar nanotips as probes for transport experiments in molecules. <i>Microelectronic Engineering</i> , 2003, 67-68, 838-844.	2.4	19
129	Resonant tunnelling leakage in planar metal-oxide-metal nanojunctions. <i>Materials Science and Engineering C</i> , 2003, 23, 1039-1042.	7.3	0
130	Fabrication of sub-10 nm planar nanotips for transport experiments of biomolecules. <i>Materials Science and Engineering C</i> , 2003, 23, 889-892.	7.3	3
131	Open issues for lasing at 1.3 μ m in MOCVD-grown quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 238, 349-352.	1.5	0
132	Transistors based on the Guanosine molecule (a DNA base). <i>Microelectronics Journal</i> , 2003, 34, 961-963.	2.0	8
133	Field Effect Transistor Based on a Modified DNA Base. <i>Nano Letters</i> , 2003, 3, 479-483.	9.1	125
134	Fabrication of sub-10 nm planar nanotips for transport experiments of biomolecules. <i>Materials Science and Engineering C</i> , 2003, , .	7.3	0
135	Electronic rectification in protein devices. <i>Applied Physics Letters</i> , 2003, 82, 472-474.	3.3	73
136	Hybrid molecular electronic (HME) transistor based on deoxyguanosine derivatives. , 2003, , .		0
137	Hybrid molecular electronic devices based on modified deoxyguanosines. <i>Nanotechnology</i> , 2002, 13, 398-403.	2.6	47
138	Effect of the internal electric fields in Quantum Dot laser structures grown by Metal Organic Chemical Vapor Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2002, 722, 1151.	0.1	0
139	Solid-State Molecular Rectifier Based on Self-Organized Metalloproteins. <i>Advanced Materials</i> , 2002, 14, 1453-1457.	21.0	68
140	Nanotechnology approaches to self-organized bio-molecular devices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 13, 1229-1235.	2.7	19
141	Dependence of the emission wavelength on the internal electric field in quantum-dot laser structures grown by metal-organic chemical-vapor deposition. <i>Applied Physics Letters</i> , 2001, 79, 1435-1437.	3.3	19
142	Wavelength control from 1.25 to 1.4 μ m in InxGa1-xAs quantum dot structures grown by metal organic chemical vapor deposition. <i>Applied Physics Letters</i> , 2001, 78, 1382-1384.	3.3	50
143	Fabrication of nanoelectrodes for hybrid molecular-electronic devices. , 0, , .		0
144	Metalloprotein-based field-effect transistor: a prototype. , 0, , .		1

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145	Resonant electron tunneling through azurin in air and liquid by scanning tunneling microscopy. , 0, , .		2
146	Nanofabrication for Molecular Scale Devices. , 0, , .		0
147	Morphological Study of CdSe Nanocrystals Passivated with a Low Band Gap Rod-Coil Diblock Copolymer for Hybrid Solar Cells. Advances in Science and Technology, 0, , .	0.2	2
148	Lab-on-chip platform for on-field analysis of Grapevine leafroll-associated virus 3. , 0, , .		0