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#	Paper	IF	Citations
2295	Voltage controlled photoluminescence blinking in CdSe nano-particles. 2010 , 18, 26872		
2294	DOE/NREL fundamental and exploratory research into solar cells.		1
2293	Size and shape dependent level structure in CdSe quantum rods. 2002, 737, 174		
2292	Ultrafast electronic relaxation in colloidal gold (I) sulfide nanoparticles. 2002, 4807, 216		1
2291	Sterically induced shape and crystalline phase control of GaP nanocrystals. 2002, 124, 13656-7		123
2290	Regioregular Poly(4-alkylquinoline)s: Synthesis, Self-Organization, and Properties. 2002 , 35, 9844-9846	5	38
2289	Efficient Phase Transfer of Luminescent Thiol-Capped Nanocrystals: From Water to Nonpolar Organic Solvents. 2002 , 2, 803-806		228
2288	Organic Nanotube Bridge Fabrication by Controlling Molecular Self-Assembly Processes between Spherical and Tubular Formations. 2002 , 2, 887-889		25
2287	Size-dependent tunneling and optical spectroscopy of CdSe quantum rods. 2002 , 89, 086801		190
2286	Electrogenerated Chemiluminescence of CdSe Nanocrystals. 2002 , 2, 1315-1319		364
2285	Synthesis of silver nanodisks using polystyrene mesospheres as templates. 2002 , 124, 15182-3		207
2284	Imaging as-grown [60]fullerene nanotubes by template technique. 2002 , 124, 13370-1		201
2283	End Group Modification of Regioregular Polythiophene through Postpolymerization Functionalization. 2002 , 35, 9882-9889		110
2282	General Synthesis of Semiconductor Chalcogenide Nanorods by Using the Monodentate Ligand n-Butylamine as a Shape Controller. <i>Angewandte Chemie</i> , 2002 , 114, 4891-4894	3.6	33
2281	Synthesis and Characterization of Lanthanide Hydroxide Single-Crystal Nanowires. <i>Angewandte Chemie</i> , 2002 , 114, 4984-4987	3.6	27
2280	General synthesis of semiconductor chalcogenide nanorods by using the monodentate ligand n-butylamine as a shape controller. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4697-700	16.4	140
2279	Synthesis and characterization of lanthanide hydroxide single-crystal nanowires. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4790-3	16.4	413

2278	Organic photovoltaic materials and devices. 2002 , 3, 523-542	259
2277	Photovoltaics Literature Survey (No. 17). 2002, 10, 441-443	
2276	Electroluminescence from single monolayers of nanocrystals in molecular organic devices. 2002 , 420, 800-3	2182
2275	Metastable garnet in oceanic crust at the top of the lower mantle. 2002 , 420, 803-6	84
2274	Optical Properties of Colloidal PbSe Nanocrystals. 2002 , 2, 1321-1324	416
2273	Attachment of Single CdSe Nanocrystals to Individual Single-Walled Carbon Nanotubes. 2002 , 2, 1253-1258	278
2272	Shape Control of Colloidal Semiconductor Nanocrystals. 2002 , 13, 521-532	127
2271	Photoconductivity of Compositions Based on Polystyrene in the Near IR Region of the Spectrum. 2003 , 39, 152-157	
2270	Tunneling and optical spectroscopy of semiconductor nanocrystals. 2003 , 54, 465-92	131
2269	Evaluation of the photoinduced electron relaxation dynamics of Cu1.8S quantum dots. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 1091-1095	84
2268	Transparent organicIhorganic hybrid thin films prepared from acrylic polymer and aqueous monodispersed colloidal silica. 2003 , 82, 388-395	97
2267	Efficient Methano[70]fullerene/MDMO-PPV Bulk Heterojunction Photovoltaic Cells. <i>Angewandte Chemie</i> , 2003 , 115, 3493-3497	147
2266	Efficient methano[70]fullerene/MDMO-PPV bulk heterojunction photovoltaic cells. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 3371-5	1012
2265	Synthesis and properties of new polyimidelilica hybrid films through both intrachain and interchain bonding. 2003 , 44, 7079-7087	92
2264	The use of surface-active agents in the preparation and assembly of quantum-sized nanoparticles. 2003 , 106, 169-81	24
2263	On the photovoltaic response of the J-domain and the JA-assembly. 2003 , 80, 257-264	9
2262	Electrical and optical effects in molecular nanoscopic-sized building blocks. 2003 , 19, 126-132	4
2261	Dye-sensitized solar cells. 2003 , 4, 145-153	3630

2260	Inclusion of Bi2S3 nanoparticles in polypyrrole thin films electropolymerized on chemically deposited bismuth sulfide electrodes: synthesis and characterization. 2003 , 77, 239-254	10
2259	Design of a block copolymer solar cell. 2003 , 79, 257-264	90
2258	Conductivity, morphology, interfacial chemistry, and stability of poly(3,4-ethylene dioxythiophene) poly(styrene sulfonate): A photoelectron spectroscopy study. 2003 , 41, 2561-2583	432
2257	Synthesis and size-dependent properties of zinc-blende semiconductor quantum rods. 2003 , 2, 155-8	360
2256	Semiconductor nanocrystals: Shape matters. 2003 , 2, 138-9	183
2255	Controlled growth of tetrapod-branched inorganic nanocrystals. 2003 , 2, 382-5	1290
2254	Inorganic materials: nanocrystals branch out. 2003 , 2, 355-6	175
2253	Synthesis and characterization of organicIhorganic hybrid thin films from poly(acrylic) and monodispersed colloidal silica. 2003 , 44, 593-601	229
2252	Preparation of surface initiated polystyrenesulfonate films and PEDOT doped by the films. 2003 , 44, 3185-3192	25
2251	Shape-selected synthesis of nanocrystalline SnS in different alkaline media. 2003 , 252, 581-586	36
2250	Aerosol Synthesis of Anatase Titanium Dioxide Nanoparticles for Hybrid Solar Cells. 2003 , 15, 4617-4624	49
2249	Field-Effect Mobility of Charge Carriers in Blends of Regioregular Poly(3-alkylthiophene)s. 2003 , 107, 1749-1754	98
2248	Standing wave enhancement of red absorbance and photocurrent in dye-sensitized titanium dioxide photoelectrodes coupled to photonic crystals. 2003 , 125, 6306-10	524
2247	Au nanocrystal growth on nanotubes controlled by conformations and charges of sequenced peptide templates. 2003 , 125, 5873-9	162
2246	High Energy Excitations in CdSe Quantum Rods. 2003, 3, 101-105	58
2245	Molecular Clusters of Binary and Ternary Mercury Chalcogenides: Colloidal Synthesis, Characterization, and Optical Spectra. 2003 , 107, 5758-5767	69
2244	Excitonic Solar Cells. 2003 , 107, 4688-4698	671
2243	Nanopillar Arrays of Glassy Carbon by Anodic Aluminum Oxide Nanoporous Templates. 2003 , 3, 439-442	72

2242	Shape Effects on Electronic States of Nanocrystals. 2003 , 3, 1357-1363	145
2241	Synthesis of periodic hexagonal surfactant templated platinum tin tellurides: narrow band gap inorganic/organic composites. 2003 , 125, 4551-9	46
2240	Nanocrystalline Chalcopyrite Materials (CuInS2 and CuInSe2) via Low-Temperature Pyrolysis of Molecular Single-Source Precursors. 2003 , 15, 3142-3147	362
2239	Synthesis and Characterization of PbSe Quantum Wires, Multipods, Quantum Rods, and Cubes. 2003 , 3, 857-862	189
2238	Femtosecond Spectroscopic Investigation of the Carrier Lifetimes in Digenite Quantum Dots and Discrimination of the Electron and Hole Dynamics via Ultrafast Interfacial Electron Transfer 2003 , 107, 12431-12437	71
2237	High Carrier Mobility in a Series of New Semiconducting PPV-Type Polymers. 2003 , 36, 4374-4384	46
2236	Stringing up the Pearls: Self-Assembly, Optical and Electronic Properties of CdSelland AulliMo3Se3 NanoparticleNanowire Composites. 2003 , 3, 125-129	44
2235	Observation of Bimolecular Carrier Recombination Dynamics in Close-Packed Films of Colloidal CdSe Nanocrystals. 2003 , 107, 12585-12588	22
2234	Synthesis and Characterization of Colloidal InP Quantum Rods. 2003, 3, 833-837	82
2233	Simulated Assembly of Nanostructured Organic/Inorganic Networks. 2003 , 3, 989-994	65
2232	Design of Nanostructured Heterojunction Polymer Photovoltaic Devices. 2003 , 3, 1729-1733	138
2231	Organic and Plastic Solar Cells. 2003 , 483-511	
2230	Shape control and applications of nanocrystals. 2003 , 361, 241-55; discussion 56-7	172
2229	Dependence of the Gold Nanorod Aspect Ratio on the Nature of the Directing Surfactant in Aqueous Solution. 2003 , 19, 9065-9070	517
2228	Determination of quantum confinement in CdSe nanocrystals by cyclic voltammetry. 2003 , 119, 2333-2337	241
2227	Optical and electrochemical characterization of poly(3-undecyl-2,2?-bithiophene) in thin film solid state TiO2 photovoltaic solar cells. 2003 , 132, 197-204	57
2226	Low polydispersity core/shell nanocrystals of CdSe/ZnSe and CdSe/ZnSe/ZnS type: preparation and optical studies. 2003 , 139, 649-652	95
2225	Quaternary self-organization of porphyrin and fullerene units by clusterization with gold nanoparticles on SnO2 electrodes for organic solar cells. 2003 , 125, 14962-3	158

2224	In situ quantum dot growth on multiwalled carbon nanotubes. 2003 , 125, 10342-50	157
2223	Materials science. Watching nanoparticles grow. <i>Science</i> , 2003 , 300, 1378-9	22
2222	Controlled Synthesis of Novel Metalated Poly(aminohexyl)-(aminopropyl)silsesquioxane Colloids. 2003 , 19, 7071-7083	21
2221	Band-Edge Tuning in Self-Assembled Layers of Bi2S3 Nanoparticles Used To Photosensitize Nanocrystalline TiO2. 2003 , 107, 8378-8381	246
2220	Comparing organic to inorganic photovoltaic cells: Theory, experiment, and simulation. 2003 , 93, 3605-3614	402
2219	Selected-control synthesis of PbO2 and Pb3O4 single-crystalline nanorods. 2003 , 125, 4982-3	124
2218	Photovoltaic Devices Using Blends of Branched CdSe Nanoparticles and Conjugated Polymers. 2003 , 3, 961-963	593
2217	Charge transport in hybrid nanorod-polymer composite photovoltaic cells. 2003, 67,	237
2216	Photovoltaic cells made from conjugated polymers infiltrated into mesoporous titania. 2003 , 83, 3380-3382	402
2215	Hexagonal CdTe nanoparticles of various morphologies. 2003 , 2478-9	41
2215	Hexagonal CdTe nanoparticles of various morphologies. 2003, 2478-9 Microcavity Lasing from Block Peptide Hierarchically Assembled Quantum Dot Spherical Resonators. 2003, 3, 907-911	41 61
2214	Microcavity Lasing from Block Peptide Hierarchically Assembled Quantum Dot Spherical	
2214	Microcavity Lasing from Block Peptide Hierarchically Assembled Quantum Dot Spherical Resonators. 2003 , 3, 907-911	61
2214	Microcavity Lasing from Block Peptide Hierarchically Assembled Quantum Dot Spherical Resonators. 2003, 3, 907-911 Quantum Dots. 4-49 Quantum dots in a metallopolymer host: studies of composites of polyferrocenes and CdSe	61
2214 2213 2212	Microcavity Lasing from Block Peptide Hierarchically Assembled Quantum Dot Spherical Resonators. 2003, 3, 907-911 Quantum Dots. 4-49 Quantum dots in a metallopolymer host: studies of composites of polyferrocenes and CdSe nanocrystals. 2003, 13, 2213 Structural and optical properties of CdSe, CdTe and CdSeTe nanoparticles dispersed in SiO2 films.	61 2 26
2214 2213 2212 2211	Microcavity Lasing from Block Peptide Hierarchically Assembled Quantum Dot Spherical Resonators. 2003, 3, 907-911 Quantum Dots. 4-49 Quantum dots in a metallopolymer host: studies of composites of polyferrocenes and CdSe nanocrystals. 2003, 13, 2213 Structural and optical properties of CdSe, CdTe and CdSeTe nanoparticles dispersed in SiO2 films. 2003, 789, 222	61 2 26
2214 2213 2212 2211 2210	Microcavity Lasing from Block Peptide Hierarchically Assembled Quantum Dot Spherical Resonators. 2003, 3, 907-911 Quantum Dots. 4-49 Quantum dots in a metallopolymer host: studies of composites of polyferrocenes and CdSe nanocrystals. 2003, 13, 2213 Structural and optical properties of CdSe, CdTe and CdSeTe nanoparticles dispersed in SiO2 films. 2003, 789, 222 Electrical and optical properties of semiconductor nanocrystals. 2003, 361, 363-77; discussion 377	61 2 26 0

2200	Mineral Liquid Crystals from Self-Assembly of Anisotropic Nanosystems. 2003 , 119-172	75
2205	Spin-Coating of Polyimide-Silica Hybrid Optical Thin Films. 2003 , 150, F147	8
2204	Inorganic tetrapod nanocrystals: synthesis, structure and properties.	
2203	Merocyanine Dye-Sensitization of Polythiophene in a Conjugated Polymer/TiO2p目 Hetero-Junction Solar Cell. 2003 , 76, 2277-2283	16
2202	. 2003,	64
2201	. 2003,	28
2200	Synthesis And Characterization Of Copper Selenide Nanocrystallite In A Reverse Microemulsion. 2004 , 8, 166-167	
2199	Organic Optoelectronic Nanostructures. 2004 , 485-504	
2198	Interpenetrating Interface in Organic Photovoltaic Cells with Heterojunction of Poly(3-hexylthiophene) and C60. 2004 , 43, 5573-5576	25
2197	Environmental Technologies at the Nanometer-Scale. 2004 , 7-12	
2196	Organic photovoltaic cells containing discotic liquid crystalline phthalocyanines. 2004 , 5215, 71	4
2195	Network structures of polyhedral oligomeric silsesquioxane based nanocomposites: a Monte Carlo study. 2004 , 121, 9693-701	17
2195 2194		17 77
	study. 2004 , 121, 9693-701	
2194	Effect of monomer geometry on the fractal structure of colloidal rod aggregates. 2004 , 92, 155503 High-performance photorefractive polymers sensitized by cadmium selenide nanoparticles. 2004 ,	77
2194	Effect of monomer geometry on the fractal structure of colloidal rod aggregates. 2004 , 92, 155503 High-performance photorefractive polymers sensitized by cadmium selenide nanoparticles. 2004 , 85, 534-536 Hybrid nanocrystalline TiO2 solar cells with a fluorenethiophene copolymer as a sensitizer and	77 48
2194 2193 2192	Effect of monomer geometry on the fractal structure of colloidal rod aggregates. 2004, 92, 155503 High-performance photorefractive polymers sensitized by cadmium selenide nanoparticles. 2004, 85, 534-536 Hybrid nanocrystalline TiO2 solar cells with a fluorenethiophene copolymer as a sensitizer and hole conductor. 2004, 95, 1473-1480	77 48 171

2188 Nanostructured pli Junctions for Printable Photovoltaics. 2004 , 29, 43-47	10
2187 Ultrahigh vacuum deposition of CdSe nanocrystals on surfaces by pulse injection. 2004 , 16, 7	565-7579 20
2186 Fabrication of Nanorod Arrays for Organic Solar Cell Applications. 2004 , 836, L2.5.1	
Temperature Effects on Photocurrent Generation in Polymer Heterollunction Photovoltaic Devices. 2004 , 836, L5.5.1	
2184 Manufacturing and commercialization issues in organic electronics. 2004 , 19, 1974-1989	154
2183 Nanoporous Si © rganic Composite Photovoltaics. 2004 , 836, L2.10.1	
Nanocomposite solar cells: influence of particle concentration, size, and shape on the device performance. 2004 ,	1
2181 First solar cells based on CdTe nanoparticle/MEH-PPV composites. 2004 , 19, 1990-1994	81
2180 Charge transport and efficiency in photovoltaic devices based on polyfluorene blends. 2004 ,	5520, 26
2179 Optical properties of CdSe and CdTe nanoparticles embedded in SiO2 films. 2004 , 829, 473	
Investigation of quantitative secondary electron imaging of semiconducting polymer material using environmental scanning electron microscopy. 2004 , 216, 241-8	als 4
2177 Colloidal nanocrystal heterostructures with linear and branched topology. 2004 , 430, 190-5	1064
2176 Next-generation technologies in the USA. 2004 , 38, 931-935	5
2175 TiO2 nanocrystals IMEH-PPV composite thin films as photoactive material. 2004 , 451-452, 64	l -68 54
2174 Hybrid solar cells based on inorganic nanoclusters and conjugated polymers. 2004 , 451-452,	612-618 ₇₁
Photogeneration of charge carriers in blends of conjugated polymers and semiconducting nanoparticles. 2004 , 451-452, 48-53	25
2172 Nanoparticle separation by mesoporous molecular sieves. 2004 , 14, 173-174	1
Influence of polar solvent on light-emitting property of SiO(mathsf $\{x\}$) ((mathsf $\{x = 1.2-1.6\}$ nanoparticles irradiated by ultraviolet ozone. 2004 , 41, 49-53	5})))

(2004-2004)

2170	Fluorescence resonance energy transfer between quantum dot donors and dye-labeled protein acceptors. 2004 , 126, 301-10	1149
2169	SEMICONDUCTOR NANOWIRES AND NANOTUBES. 2004 , 34, 83-122	1210
2168	High efficiency carrier multiplication in PbSe nanocrystals: implications for solar energy conversion. 2004 , 92, 186601	1474
2167	Conjugated Oligothiophene-Dendron-Capped CdSe Nanoparticles: Synthesis and Energy Transfer. 2004 , 16, 5187-5193	89
2166	Synthesis and optical properties of anisotropic metal nanoparticles. 2004 , 14, 331-41	242
2165	The Effect of Organic Ligand Binding on the Growth of CdSe Nanoparticles Probed by Ab Initio Calculations. 2004 , 4, 2361-2365	285
2164	Biomolecule-directed assembly of nanoscale building blocks studied via lattice Monte Carlo simulation. 2004 , 121, 3919-29	17
2163	Nanotube Optoelectronic Memory Devices. 2004 , 4, 1587-1591	176
2162	Semiconductor Nanoparticles. 2004 , 29-52	3
2161	Efficient excitation transfer from polymer to nanocrystals. 2004 , 84, 4295-4297	78
2160	A PbS quantum-cube: conducting polymer composite for photovoltaic applications. 2004 , 4, 320-322	37
2159	Synthesis and magnetic properties of CeVO3 nanostructures. 2004 , 132, 595-599	9
2158	Photoconductive organic materials for the near-IR radiation range. 2004 , 53, 1674-1680	10
2157	Structural basis for homogeneous CdS nanorods: synthesis and HREM characterization. 2004, 78, 5-7	23
2156	Hexagonal CdTe nanorods in spray deposited CdTe nanoparticle thin films. 2004 , 201, R72-R74	17
2155	Poly(methyl silsesquioxane)/amphiphilic block copolymer hybrids and their porous derivatives: Poly(styrene-block-acrylic acid) and poly(styrene-block-3-trimethoxysilylpropyl methacrylate). 2004 , 42, 4466-4477	12
2154	Thin-film solar cells: an overview. 2004 , 12, 69-92	830
2153	Proceedings of scanning 2004 April 27🛭 9, 200 Washington, D.C., USA. 2004 , 26, 57-101	2

2152	Site-specific photodeposition of silver on ZnO nanorods. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4774-7	16.4	263
2151	Site-Specific Photodeposition of Silver on ZnO Nanorods. <i>Angewandte Chemie</i> , 2004 , 116, 4878-4881	3.6	61
2150	An in situ Template Route for Fabricating Metal Chalcogenide Hollow Spherical Assemblies Sonochemically. 2004 , 2004, 4653-4659		20
2149	Enhancement of photovoltaic characteristics using a PEDOT interlayer in TiO2/MEHPPV heterojunction devices. 2004 , 85, 31-31		4
2148	Synthesis of dye linked conducting block copolymers, dye linked conducting homopolymers and preliminary application to photovoltaics. 2004 , 83, 211-228		29
2147	Production of large-area polymer solar cells by industrial silk screen printing, lifetime considerations and lamination with polyethyleneterephthalate. 2004 , 83, 293-300		216
2146	The application of inverse titania opals in nanostructured solar cells. 2004 , 85, 115-115		3
2145	Regioregular poly(thiophene-3-alkanoic acid)s: water soluble conducting polymers suitable for chromatic chemosensing in solution and solid state. 2004 , 60, 11269-11275		45
2144	Conversion of sunlight to electric power by nanocrystalline dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 164, 3-14	4.7	1898
2143	Polythiophene-sensitized TiO2 solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 166, 75-80	4.7	79
2142	Novel morphologies of nickel sulfides: nanotubes and nanoneedles derived from rolled nanosheets in a w/o microemulsion. 2004 , 262, 554-560		23
2141	Effect of acidity and anions on synthesis of AFI molecular sieves in wide pH range of 3🛭 0. 2004, 67, 151-	157	28
2140	Photochemistry and kinetics of single organic nanoparticles in the presence of charge carriers. 2004 , 40, 1013-1018		15
2139	Semiconductor zinc chalcogenides nanofibers from 1-D molecular precursors. 2004 , 7, 370-373		54
2138	Ultrafast electron injection from metal polypyridyl complexes to metal-oxide nanocrystalline thin films. 2004 , 248, 1231-1246		117
2137	Dye sensitization solar cells: a critical assessment of the learning curve. 2004 , 248, 1511-1530		174
2136	Organic donor/acceptor heterojunction photovoltaic devices based on zinc phthalocyanine and a liquid crystalline perylene diimide. 2004 , 383, 11-15		102
2135	Influence of solvent on film morphology and device performance of poly(3-hexylthiophene):TiO2 nanocomposite solar cells. 2004 , 384, 372-375		140

2134	Direct observation of the structure of gold nanoparticles by total scattering powder neutron diffraction. 2004 , 393, 385-388	79
2133	Facile synthesis of single-crystal tin oxide nanorods with tunable dimensions via hydrothermal process. 2004 , 398, 201-206	72
2132	Organic Optoelectronic Devices. 2004 , 11, 44-52	1
2131	On shape controlled nanocrystals and hybrid materials: how nanotransistors and remote controlled fluorescent probes could be realized.	
2130	Spectroscopic units in conjugated polymers: a quantum chemically founded concept?. 2004, 108, 6164-9	218
2129	Nanocrystalline metal electrodes for high-efficiency organic solar cells. 2004 , 85, 1832-1834	5
2128	Optical properties and applications of dendrimer thetal nanocomposites. 2004 , 23, 109-150	59
2127	Comparison between Quantum Confinement Effects of Quantum Wires and Dots. 2004 , 16, 4012-4015	45
2126	Transport and Charging in Single Semiconductor Nanocrystals Studied by Conductance Atomic Force Microscopy. 2004 , 4, 103-108	21
2125	FIV/SMS: A New Technique for Studying the Structure and Dynamics of Single Molecules and Nanoparticles 2004 , 108, 10301-10308	48
2124	Attachment of ferrocene nanotubes on beta-cyclodextrin self-assembled monolayers with molecular recognitions. 2004 , 20, 8409-13	31
2123	Size Dependent Femtosecond Electron Cooling Dynamics in CdSe Quantum Rods. 2004 , 4, 1089-1092	47
2122	Synthesis, surface modification, and multilayer construction of mixed-monolayer-protected CdS nanoparticles. 2004 , 20, 11169-74	31
2121	Predicting the Mechanical and Electrical Properties of Nanocomposites Formed from Polymer Blends and Nanorods. 2004 , 30, 249-257	69
2120	Photovoltaic Properties of a Conjugated Polymer Blend of MDMOPPV and PCNEPV. 2004, 16, 2503-2508	111
2119	Photoconductivity from PbS-nanocrystalBemiconducting polymer composites for solution-processible, quantum-size tunableinfrared photodetectors. 2004 , 85, 2089-2091	125
2118	A Nanoparticle Approach To Control the Phase Separation in Polyfluorene Photovoltaic Devices. 2004 , 37, 4882-4890	137
2117	Free-Energy-Driven Transfer of Charge in Dense Electrochemically Active Monomolecular Films. 2004 , 108, 15815-15819	6

2116	Growth of InP nanostructures via reaction of indium droplets with phosphide ions: synthesis of InP quantum rods and InP-TiO2 composites. 2004 , 126, 2632-9	70
2115	Electrochemistry of Conductive Polymers. 33. Electrical and Optical Properties of Electrochemically Deposited Poly(3-methylthiophene) Films Employing Current-Sensing Atomic Force Microscopy and Reflectance Spectroscopy. 2004 , 108, 16365-16371	32
2114	Structure Analysis of Nanowires and Nanobelts by Transmission Electron Microscopy. 2004 , 108, 12280-12291	158
2113	Aligned TiO2 Nanorods and Nanowalls. 2004, 108, 3377-3379	242
2112	UV Polymerization of Oligothiophenes and Their Application in Nanostructured Heterojunction Solar Cells. 2004 , 37, 5557-5564	35
2111	The influence of solvent on CuInS/sub 2/ semiconductor nanocrystals synthesis and growth under solvothermal conditions.	
211 0	Photoinduced charge transfer in composites of conjugated polymers and semiconductor nanocrystals. 2004 , 15, 163-170	77
2109	Organic Photovoltaic Devices Based on Blends of Regioregular Poly(3-hexylthiophene) and Poly(9,9-dioctylfluorene-co-benzothiadiazole). 2004 , 16, 4812-4818	211
2108	Conjugated Polymer Photovoltaic Cells. 2004 , 16, 4533-4542	1940
2107	Chelating ligands for nanocrystals' surface functionalization. 2004 , 126, 11574-82	146
2106	Charge-transfer hybrids containing covalently bonded polyoxometalates and ferrocenyl units. 2004 , 43, 6408-13	61
2105	Employing end-functional polythiophene to control the morphology of nanocrystal-polymer composites in hybrid solar cells. 2004 , 126, 6550-1	423
2104	Zero-Dimensional and Quasi One-Dimensional Effects in Semiconductor Nanorods. 2004 , 4, 1073-1077	52
2103	Electronic Level Structure and Single Electron Tunneling Effects in CdSe Quantum Rods. 2004 , 44, 391-400	5
2102	Excitonic coupling in polythiophenes: comparison of different calculation methods. 2004 , 120, 2490-5	144
2101	Conducting Polymers. 2004 ,	4
2100	Effect of ZnO layer on characteristics of conducting polymer/C60photovoltaic cell. 2004 , 37, 847-850	61
2099	Density-functional study of organic-inorganic hybrid single crystal ZnSe(C2H8N2)(1/2). 2004 , 120, 6721-5	34

2098	Microscope. 2004 , 4, 219-223	74
2097	Quantum dots tailored with poly(para-phenylene vinylene). 2004 , 126, 11322-5	214
2096	Helically annelated and cross-conjugated oligothiophenes: asymmetric synthesis, resolution, and characterization of a carbon-sulfur [7]helicene. 2004 , 126, 15211-22	143
2095	Preparation of free-standing nanowire arrays on conductive substrates. 2004 , 126, 16338-9	131
2094	Photoconductivity studies of treated CdSe quantum dot films exhibiting increased exciton ionization efficiency. 2004 , 70,	164
2093	Synthesis and Characterization of Colloidal CuInS2 Nanoparticles from a Molecular Single-Source Precursor. 2004 , 108, 12429-12435	371
2092	Synthesis and Optical Properties of B ranchedl G old Nanocrystals. 2004 , 4, 327-330	491
2091	Solid state solar cell made from nanocrystalline TiO 2 with a fluorene-thiophene copolymer as a hole conductor. 2004 ,	
2090	Supramolecular Photovoltaic Cells Based on Composite Molecular Nanoclusters: Dendritic Porphyrin and C60, Porphyrin Dimer and C60, and Porphyrin (160 Dyad. 2004 , 108, 12865-12872	148
2089	Charge Carrier Transport in Poly(N-vinylcarbazole):CdS Quantum Dot Hybrid Nanocomposite. 2004 , 108, 1556-1562	85
2088	Electronic Structure of InP Quantum Rods: Differences between Wurtzite, Zinc Blende, and Different Orientations. 2004 , 4, 29-33	18
2087	Nanowires. 2004 , 99-146	8
2086	Giant multiporphyrin arrays as artificial light-harvesting antennas. 2004 , 108, 6130-43	330
2085	Electropolymerization of conjugated polymers in mesoporous titania for photovoltaic applications. 2004 ,	4
2084	Poly(3-hexylthiophene):TiO2nanocomposites for solar cell applications. 2004 , 15, 1156-1161	169
2083	Efficient Solar Cells from Layered Nanostructures of Donor and Acceptor Conjugated Polymers. 2004 , 16, 4647-4656	250
2082	Ligand-Controlling Synthesis and Ordered Assembly of ZnS Nanorods and Nanodots. 2004 , 108, 16002-16011	156
2081	Investigation of Nanostructured-Polymer Blend Solar Cells. 2004 ,	

2080	Template-Controlled Synthesis of Wire-Like Cadmium Sulfide Nanoparticle Assemblies within CoreBhell Cylindrical Polymer Brushes. 2004 , 16, 537-543	219
2079	Electrospun TiO2 electrodes for dye-sensitized solar cells. 2004 , 15, 1861-1865	269
2078	Spatially directed electrosynthesis of semiconductors for photoelectrochemical applications. 2004 , 8, 173-182	25
2077	Light induced damage in poly(3,4-ethylenedioxythiophene) and its derivatives studied by photoelectron spectroscopy. 2004 , 141, 67-73	56
2076	Photovoltaic devices fabricated from an aqueous dispersion of polyfluorene nanoparticles using an electroplating method. 2004 , 147, 105-109	9
2075	Thermal and optical properties of benzofuran-2-yl 3-phenyl-3-methylcyclobutyl thiosemicarbazone. 2004 , 58, 2901-2905	5
2074	Organic solar cells: An overview. 2004 , 19, 1924-1945	2012
2073	Charge transfer efficiency in hybrid bulk heterojunction composites. 2004 , 121, 1074-9	13
2072	Surface passivation of luminescent colloidal quantum dots with poly(dimethylaminoethyl methacrylate) through a ligand exchange process. 2004 , 126, 7784-5	136
2071	Physical Chemical Principles of Photovoltaic Conversion with Nanoparticulate, Mesoporous Dye-Sensitized Solar Cells. 2004 , 108, 8106-8118	539
2070	CdSe and CdSe/CdS nanorod solids. 2004 , 126, 12984-8	267
2069	A general solution-phase approach to oriented nanostructured films of metal chalcogenides on metal foils: the case of nickel sulfide. 2004 , 126, 8116-7	101
2068	A new approach to the synthesis of conjugated polymer-nanocrystal composites for heterojunction optoelectronics. 2004 , 2334-5	50
2067	Shape-controlled synthesis and shape-induced texture of MnFe2O4 nanoparticles. 2004 , 126, 11458-9	297
2066	Quasi-bound state theory of field-dependent photogeneration from polymer-embedded nanoparticles. 2004 , 40, 1140-1149	10
2065	Power sources for nanotechnology. 2004 , 1, 226	8
2064	Charge transfer and recombination at conjugated polymer-semiconductor nanoparticle interfaces. 2004 , 5513, 76	1
2063	Integration of nanocrystal quantum dots with crystalline semiconductor substrates: Structure, Stability, and Optical response. 2004 , 854, U4.7.1	

2062	Selective Synthesis of Wurtzite CdSe Nanorods and Zinc Blend CdSe Nanoparticals through Solvothermal Routes. 2004 , 33, 1162-1163	7
2061	A Facile Synthesis of CdSe and CdTe Nanorods Assisted by Myristic Acid. 2004 , 33, 836-837	18
2060	Synthesis of Needle-like and Flower-like Zinc Oxide by a Simple Surfactant-free Solution Method. 2004 , 33, 988-989	21
2059	Exciton dynamics and device performance in polythiophene heterojunctions for photovoltaics. 2005 , 5938, 94	5
2058	Nanoparticles for Electronic Device Applications: A Brief Review. 2005 , 38, 535-546	122
2057	One-step Synthesis of Single-crystalline CdSe Nanorods via ERay Irradiation. 2005 , 34, 120-121	2
2056	Surface Modification of Photoluminescent CdS Nanocrystals Inducing Spontaneous Phase Transfer Reaction. 2005 , 34, 1300-1301	2
2055	Highly Luminescent CdTe Nanocrystal P olymer Composites Based on Ionic Liquid. 2005 , 34, 1410-1411	38
2054	Soft Template Synthesis of Highly Crystalline Microscale Nanotubules of PbO. 2005 , 34, 1226-1227	5
2053	Synthesis of MnOOH nanorods by cluster growth route from [Mn12O12(RCOO)16(H2O)n] (R=CH3, C2H5). Rational conversion of MnOOH into Mn3O4 or MnO2 Nanorods. 2005 , 178, 2368-2375	53
2052	Spontaneous organisation of ZnS nanoparticles into monocrystalline nanorods with highly enhanced dopant-related emission. 2005 , 66, 1164-1170	18
2051	On the role of magnetic field spin effect in photoconductivity of composite films of MEH-PPV and nanosized particles of PbS. 2005 , 112, 368-371	35
2050	Growth of one-dimensional Sb2S3 and Sb2Se3 crystals with straw-tied-like architectures. 2005 , 281, 611-615	31
2049	Novel formulation of the HartreeBock approximation: Effective band gap calculation of InAs nanorods. 2005 , 341, 303-307	15
2048	Electrochemistry of conductive polymers XXXV: Electrical and morphological characteristics of polypyrrole films prepared in aqueous media studied by current sensing atomic force microscopy. 2005 , 50, 3085-3092	61
2047	A new approach to study organic solar cell using Lambert W-function. 2005 , 86, 197-205	107
2046	CdSe quantum dot-single wall carbon nanotube complexes for polymeric solar cells. 2005 , 87, 733-746	183
2045	Photosensitization of nanocrystalline TiO2 films by a polymer with two carboxylic groups, poly (3-thiophenemalonic acid). 2005 , 88, 315-322	64

2044	Enhanced electroluminescence properties of doped ZnS nanorods formed by the self-assembly of colloidal nanocrystals. 2005 , 135, 16-20	27
2043	Self-assembly and optical properties of water-soluble porphyrin alternating CdSe nanoparticulate films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 260, 239-243	3
2042	Excitons and charged excitons in InAs nanorods. 2005 , 404, 107-111	30
2041	Ligand effects on optical properties of CdSe nanocrystals. 2005 , 109, 7012-21	388
2040	Ultrafast electron transfer at the molecule-semiconductor nanoparticle interface. 2005, 56, 491-519	426
2039	Single Quantum Dots in Silica Spheres by Microemulsion Synthesis. 2005 , 17, 5720-5725	320
2038	Synthesis of luminescent and rodlike CdS nanocrystals dispersed in polymer templates. 2005 , 16, 58-64	26
2037	Dependence of Regioregular Poly(3-hexylthiophene) Film Morphology and Field-Effect Mobility on Molecular Weight. 2005 , 38, 3312-3319	922
2036	Solution-processed PbS quantum dot infrared photodetectors and photovoltaics. 2005 , 4, 138-42	1620
2035	Nanowire dye-sensitized solar cells. 2005 , 4, 455-9	4919
2034	Doping semiconductor nanocrystals. 2005 , 436, 91-4	1345
	Doping semiconductor nanocrystals. 2005 , 436, 91-4 A general strategy for nanocrystal synthesis. 2005 , 437, 121-4	1345 2257
2033	A general strategy for nanocrystal synthesis. 2005 , 437, 121-4	2257
2033	A general strategy for nanocrystal synthesis. 2005 , 437, 121-4 Colloidal nanocrystal synthesis and the organic-inorganic interface. 2005 , 437, 664-70 Synthesis of fine PbE (E=S, Se) powder from direct in situ reduction of sulphur or selenium. 2005 ,	²²⁵⁷ ²⁷³⁹
2033	A general strategy for nanocrystal synthesis. 2005, 437, 121-4 Colloidal nanocrystal synthesis and the organic-inorganic interface. 2005, 437, 664-70 Synthesis of fine PbE (E=S, Se) powder from direct in situ reduction of sulphur or selenium. 2005, 93, 91-94 Formation mechanisms and morphology dependent luminescence properties of Y2O3:Eu	2257 2739 11
2033 2032 2031 2030	A general strategy for nanocrystal synthesis. 2005, 437, 121-4 Colloidal nanocrystal synthesis and the organic-inorganic interface. 2005, 437, 664-70 Synthesis of fine PbE (E=S, Se) powder from direct in situ reduction of sulphur or selenium. 2005, 93, 91-94 Formation mechanisms and morphology dependent luminescence properties of Y2O3:Eu phosphors prepared by spray pyrolysis process. 2005, 59, 1130-1133 Surfactant-assisted electrochemical method for dendritic silver nanocrystals with advanced	2257 2739 11 78

2026	Chalcogenide (CdS, CdSe and CdS/CdSe) Semiconductor Nanoparticles. 2005 , 2005, 3585-3596	29
2025	Formation of II-VI nanocrystals in polymeric matrix: Thermolytic synthesis and structural characterization. 2005 , 40, 948-954	15
2024	MOCVD of the Cubic Zinc Nitride Phase, Zn3N2, Using Zn[N(SiMe3)2]2 and Ammonia as Precursors. 2005 , 11, 409-414	27
2023	Tunable near-infrared optical properties based on poly(methyl methacrylate) bxide waveguide materials. <i>Journal of Applied Polymer Science</i> , 2005 , 98, 1224-1228	6
2022	Single-wall carbon nanotubes as integrative building blocks for solar-energy conversion. Angewandte Chemie - International Edition, 2005, 44, 2015-8	219
2021	Water-soluble photoluminescent silicon quantum dots. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4550-4	441
2020	Single-Wall Carbon Nanotubes as Integrative Building Blocks for Solar-Energy Conversion. Angewandte Chemie, 2005, 117, 2051-2054 3.6	50
2019	Water-Soluble Photoluminescent Silicon Quantum Dots. <i>Angewandte Chemie</i> , 2005 , 117, 4626-4630 3.6	81
2018	Highly Efficient Hybrid Solar Cells Based on an Octithiophene © aAs Heterojunction. 2005 , 15, 810-817	25
2017	Enhancement of Field-Effect Mobility Due to Surface-Mediated Molecular Ordering in Regioregular Polythiophene Thin Film Transistors. 2005 , 15, 77-82	418
2016	The Effect of Polymer Optoelectronic Properties on the Performance of Multilayer Hybrid Polymer/TiO2 Solar Cells. 2005 , 15, 609-618	153
2015	Infiltration of Regioregular Poly[2,2?-(3-hexylthiopene)] into Random Nanocrystalline TiO2 Networks. 2005 , 15, 677-682	65
2014	Composition- and Shape-Controlled Synthesis and Optical Properties of ZnxCd1⊠S Alloyed Nanocrystals. 2005 , 15, 433-441	110
2013	Efficient Photosensitization and High Optical Gain in a Novel Quantum-Dot-Sensitized Hybrid Photorefractive Nanocomposite at a Telecommunications Wavelength. 2005 , 15, 751-756	39
2012	Photolithographic Route to the Fabrication of Micro/Nanowires of IIIIV Semiconductors. 2005, 15, 30-40	98
2011	Bonding Polyether onto ZnO Nanoparticles: An Effective Method for Preparing Polymer Nanocomposites with Tunable Luminescence and Stable Conductivity. 2005 , 15, 1751-1756	121
2010	Hybrid Solar Cells Using a Zinc Oxide Precursor and a Conjugated Polymer. 2005 , 15, 1703-1707	190
2009	Enhanced Hole Mobility in Regioregular Polythiophene Infiltrated in Straight Nanopores. 2005 , 15, 1927-1932	171

2008	Nanowire pl Heterojunction Diodes Made by Templated Assembly of Multilayer Carbon-Nanotube/Polymer/Semiconductor-Particle Shells around Metal Nanowires. 2005 , 17, 187-192	79
2007	Fabrication of Three-Dimensional Surface Structures with Highly Fluorescent Quantum Dots by Surface-Templated Layer-by-Layer Assembly. 2005 , 17, 1243-1248	43
2006	Polarized-Light-Emitting Quantum-Rod Diodes. 2005 , 17, 1436-1439	112
2005	Molecular Photoelectrochemical Devices: Supramolecular Incorporation of C60 Molecules into Tailored Holes on Porphyrin-Modified Gold Nanoclusters. 2005 , 17, 1727-1730	56
2004	The Versatile Thiophene: An Overview of Recent Research on Thiophene-Based Materials. 2005 , 17, 1581-159	3431
2003	Using Resonance Energy Transfer to Improve Exciton Harvesting in OrganicIhorganic Hybrid Photovoltaic Cells. 2005 , 17, 2960-2964	142
2002	Disorder-Induced Optical Heterogeneity in Single CdSe Nanowires. 2005 , 17, 2942-2949	82
2001	Synthesis and structural metastability of CdTe nanowires. 2005 , 11, 2220-4	32
2000	A new two-phase route to high-quality CdS nanocrystals. 2005 , 11, 3843-8	66
1999	Synthesis, photophysics, and photoresponse of fullerene-based azoaromatic dyads. 2005 , 11, 5765-76	16
1998	Host-guest interactions in the supramolecular incorporation of fullerenes into tailored holes on porphyrin-modified gold nanoparticles in molecular photovoltaics. 2005 , 11, 7265-75	63
1997	Production of silicon quantum dots for photovoltaic applications by picosecond pulsed laser ablation. 2005 , 116, 273-277	23
1996	Photosensitive polyimide/silica hybrid optical materials: Synthesis, properties, and patterning. 2005 , 46, 6959-6967	56
1995	Simultaneous control of nanocrystal size and nanocrystal-nanocrystal separation in CdS nanocrystal assembly. 2005 , 65, 565-570	52
1994	Formation of Lead Selenide Crystallites in a Dielectric Matrix of Lead Selenite. 2005 , 31, 489-498	6
1993	Promising avenues of research in nanoscience: chemistry of semiconductor nanoparticles. 2005 , 54, 827-852	40
1992	Morphology and properties of poly[2-methoxy-5-(2?-ethyl-hexyloxy)-para-phenylene vinylene]/silica nanoparticle hybrid films. 2005 , 54, 500-505	9
1991	Single-wall carbon nanotubepolymer solar cells. 2005 , 13, 165-172	209

(2005-2005)

Synthesis of regioregular poly(3-octylthiophene)s via Suzuki polycondensation and end-group analysis by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. 2005 , 43	, 1454-1462 ⁴²
Solution route to inorganic nanobelt-conducting organic polymer core-shell nanocomposites. 200 ! 43, 2892-2900	5 , 50
1988 A general chemical conversion method to various semiconductor hollow structures. 2005 , 1, 216-2	1 77
1987 Aligned single-crystalline Si nanowire arrays for photovoltaic applications. 2005 , 1, 1062-7	718
1986 Nanocrystals as precursors for flexible functional films. 2005 , 1, 1184-7	39
1985 Charge Generation in Inorganic/Organic Photovoltaic Blends. 2005 , 783-785	1
Self-organization in composites of poly(3-hexylthiophene) and single-walled carbon nanotubes designed for use in photovoltaic applications. 2005 , 6036, 45	5
1983 Fabrication of silicon nanowire network in aluminum thin films. 2005 , 862, 891	2
1982 A Polymeric/Inorganic Nanocomposite for Solid-State Dye-Sensitized Solar Cells. 2005 , 7, 2962-290	64 6
CdS and ZnS Nanoparticles Growth in Different Reaction Media: Synthesis and Characterization. 2005 , 879, 1	4
A First Principles Study of Ultra-Thin (AIO)n Nanorods: Mechanical Behaviour Under Tension and Compression. 2005 , 219, 123-130	
1979 Synthesis of Mercury Cadmium Telluride Nanoparticles by Solvothermal Method. 2005 , 878, 1	1
1978 Synthesis and Characterization of III-V Rod Shape Semiconductor Nanocrystals. 2005 , 494, 121-128	3
Preparation and characterization of titania nanotubes and hybrid materials derived from them. 2005 , 23, 2398	10
1976 Controlling PbS nanocrystal aggregation in conducting polymers. 2005 , 16, 2381-4	26
Solution-processed infrared photovoltaic devices with >10% monochromatic internal quantum efficiency. 2005 , 87, 213112	71
Sol C el Processing of Semiconducting Metal Chalcogenide Xerogels: Influence of Dimensionality on Quantum Confinement Effects in a Nanoparticle Network. 2005 , 17, 6644-6650	50
1973 Hybrid Organic-Inorganic Electronics. 2005 , 347-386	10

1972	Organic-inorganic hybrid semiconductor ZnSe(C2H8N2)1 under hydrostatic pressure. 2005, 72,	4
1971	Ultrafast carrier dynamics in core and core/shell CdSe quantum rods: Role of the surface and interface defects. 2005 , 72,	70
1970	Roles of Au and Ag nanoparticles in efficiency enhancement of poly(3-octylthiophene)/C60 bulk heterojunction photovoltaic devices. 2005 , 87, 203113	148
1969	Nanocrystal-based microcavity light-emitting devices operating in the telecommunication wavelength range. 2005 , 86, 241104	16
1968	In situ energy dispersive x-ray reflectometry measurements on organic solar cells upon working. 2005 , 87, 194110	46
1967	Study of the internal structure of individual CdSe quantum rods using electron nanodiffraction. 2005 , 86, 013101	8
1966	Near-infrared electroluminescent devices using single-wall carbon nanotubes thin flms. 2005 , 87, 211914	20
1965	Low-temperature synthesis of ZnSe nanowires and nanosaws by catalyst-assisted molecular-beam epitaxy. 2005 , 86, 153103	82
1964	Characteristics and photoluminescence of nanotubes and nanowires of poly (3-methylthiophene). 2005 , 86, 113116	48
1963	Formation Procedure and Microstructural Analysis of Pb7Bi3(Pb B i) Alloy Nanowires. 2005 , 44, 3333-3336	3
1962	Observing Enhanced Phosphorescence and Electroluminescence from Triplet Emitter by Quantum Dot Doping. 2005 , 44, L727-L730	2
1961	Quantum dot-single wall carbon nanotube complexes for polymeric solar cells.	1
1960	Synthesis and Application of La[sub 0.59]Ca[sub 0.41]CoO[sub 3] Nanotubes. 2005, 152, A2069	19
1959	Organic and plastic solar cells. 2005 , 419-447	2
1958	Nanocomposite solar cells based on conjugated polymer / PbSe quantum dot. 2005,	4
1957	The effect of active layer thickness on the efficiency of polymer solar cells. 2005,	3
1956	A green-emitting CdSe/poly(butyl acrylate) nanocomposite. 2005 , 16, 1969-1973	23
1955	Ultrafast Control of a Surface Plasmon Resonance via the Insulator to Metal Transition in VO2 Nanoparticles. 2005 , 792-794	

1954	Applications of hybrid organicIhorganic nanocomposites. 2005 , 15, 3559	2121
1953	Hybrid solar cells with vertically aligned CdTe nanorods and a conjugated polymer. 2005 , 86, 113101	135
1952	Vertically segregated hybrid blends for photovoltaic devices with improved efficiency. 2005 , 97, 014914	232
1951	Intensity-dependent equivalent circuit parameters of organic solar cells based on pentacene and C60. 2005 , 97, 103706	147
1950	The Photoconversion Mechanism of Excitonic Solar Cells. 2005 , 30, 20-22	123
1949	Lead sulfide nanocrystal: conducting polymer solar cells. 2005 , 38, 2006-2012	132
1948	Designing PbSe nanowires and nanorings through oriented attachment of nanoparticles. 2005 , 127, 7140-7	1119
1947	Shape-Controlled Synthesis of CdS Nanocrystals in Mixed Solvents. 2005 , 5, 1801-1806	89
1946	Engineering InAs(x)P(1-x)/InP/ZnSe III-V alloyed core/shell quantum dots for the near-infrared. 2005 , 127, 10526-32	206
1945	Enhanced infrared photovoltaic efficiency in PbS nanocrystal/semiconducting polymer composites: 600-fold increase in maximum power output via control of the ligand barrier. 2005 , 87, 233101	111
1944	Molecular-weight-dependent mobilities in regioregular poly(3-hexyl-thiophene) diodes. 2005 , 86, 122110	384
1943	Infrared emitting PbSe nanocrystals for telecommunications window applications. 2005 , 52, 955-964	31
1942	Interfused semiconductor nanocrystals: brilliant blue photoluminescence and electroluminescence. 2005 , 4616-8	52
1941	Microwave assisted synthesis of CdSe nanocrystals for straightforward integration into composite photovoltaic devices. 2005 , 15, 4367	21
1940	Surface morphology dependent photoluminescence from colloidal silicon nanocrystals. 2005 , 109, 19064-7	93
1939	Enhanced visible photoluminescence in ultrathin poly(3-hexylthiophene) films by incorporation of Au nanoparticles. 2005 , 1052-4	26
1938	Anhydrous solution synthesis of germanium nanocrystals from the germanium(II) precursor Ge[N(SiMe3)2]2. 2005 , 1914-6	82
1937	Hydrothermal synthesis of ultralong and single-crystalline Cd(OH)2 nanowires using alkali salts as mineralizers. 2005 , 44, 2568-9	65

1936	Grafting of oligoaniline on CdSe nanocrystals: spectroscopic, electrochemical and spectroelectrochemical properties of the resulting organic/inorganic hybrid. 2005 , 15, 554	22
1935	Volatile solvent-free solid-state polymer-sensitized TiO2 solar cells with poly(3,4-ethylenedioxythiophene) as a hole-transporting medium. 2005 , 2259-61	61
1934	Ultrasonic-Assisted Synthesis of Poly(3-hexylthiophene)/TiO2Nanocomposite and Its Photovoltaic Characteristics. 2005 , 44, 7494-7499	7
1933	Shell distribution on colloidal CdSe/ZnS quantum dots. 2005 , 5, 565-70	74
1932	Biexciton luminescence in InAs nanorods. 2005 , 98, 044309	27
1931	New Coplanar (ABA)n-Type DonorAcceptor EConjugated Copolymers Constituted of Alkylthiophene (Unit A) and Pyridazine (Unit B): Synthesis Using Hexamethylditin, Self-Organized Solid Structure, and Optical and Electrochemical Properties of the Copolymers. 2005, 17, 6060-6068	116
1930	Ultrafast electron transfer between molecule adsorbate and antimony doped tin oxide (ATO) nanoparticles. 2005 , 109, 7095-102	30
1929	Branched thiophene-based oligomers as electron acceptors for organic photovoltaics. 2005 , 15, 2220	30
1928	Electrical transport through a single nanoscale semiconductor branch point. 2005 , 5, 1519-23	119
1927	Chemical tuning of the electronic properties in a periodic surfactant-templated nanostructured semiconductor. 2005 , 127, 12516-27	40
1926	Characteristics of water-soluble polythiophene: TiO2 composite and its application in photovoltaics. 2005 , 98, 094906	52
1925	Crystalline-crystalline block copolymers of regioregular poly(3-hexylthiophene) and polyethylene by ring-opening metathesis polymerization. 2005 , 127, 12502-3	146
1924	Heterodimers of nanoparticles: formation at a liquid-liquid interface and particle-specific surface modification by functional molecules. 2005 , 127, 34-5	509
1923	RNA-mediated control of metal nanoparticle shape. 2005 , 127, 17814-8	78
1922	Synthesis, Characterization, and Optical and Electrochemical Properties of New 2,1,3-Benzoselenadiazole-Based CT-Type Copolymers. 2005 , 38, 7378-7385	66
1921	Band gap engineering of CdTe nanocrystals through chemical surface modification. 2005 , 127, 1634-5	67
1920	Enhancement of light-energy conversion efficiency by multi-porphyrin arrays of porphyrin-peptide oligomers with fullerene clusters. 2005 , 109, 19-23	168
1919	Influence of the solvent on the aggregation of a poly(3-hexylthiophene)quinquethiophene-S,S-dioxide blend at surfaces: an SFM study. 2005 , 15, 1704	14

1918	In situ one-pot synthesis of 1-dimensional transition metal oxide nanocrystals. 2005 , 109, 5389-91	129
1917	Characterization of nanocrystalline CdSe by size exclusion chromatography. 2005, 77, 3511-5	107
1916	Synthesis and Characterization of Triangular Bismuth Nanoplates. 2005 , 5, 1379-1385	58
1915	Nanoscale morphology of high-performance polymer solar cells. 2005 , 5, 579-83	1424
1914	Shape and Phase Control of Colloidal ZnSe Nanocrystals. 2005 , 17, 1296-1306	206
1913	Aggregation-driven growth of size-tunable organic nanoparticles using electronically altered conjugated polymers. 2005 , 127, 10350-5	159
1912	Air-stable all-inorganic nanocrystal solar cells processed from solution. <i>Science</i> , 2005 , 310, 462-5	1531
1911	High near-infrared photoluminescence quantum efficiency from PbS nanocrystals in polymer films. 2005 , 148, 257-261	35
1910	Porphyrin dye-sensitization of polythiophene in a conjugated polymer/TiO2 pB hetero-junction solar cell. 2005 , 155, 51-55	25
1909	A New Approach to the Synthesis of Nanocrystal Conjugated Polymer Composites. 2005 , 154, 57-60	5
1908	New application of electrospun TiO2 electrode to solid-state dye-sensitized solar cells. 2005 , 153, 77-80	61
1907	Highly efficient photovoltaic cells composed of interpenetrating conducting polymer/C60 heterojunction. 2005 , 152, 121-124	8
1906	Synthesis and Characterization of Polythiophene and Poly (3-methylthiophene) Nanotubes and Nanowires. 2005 , 153, 341-344	47
1905	Writing of Conducting Polymers using Nanoelectrochemistry. 2005 , 152, 345-348	8
1904	Enhancement of the photocurrent generation in dye-sensitized solar cell based on electrospun TiO2 electrode by surface treatment. 2005 , 155, 635-638	64
1903	Novel poly(3-nonylthiophene)IIiO2 hybrid materials for photovoltaic cells. 2005 , 155, 677-680	8
1902	Synthesis of platinum multipods: an induced anisotropic growth. 2005 , 5, 885-91	2 60
1901	Controlling the length and shape of gold nanorods. 2005 , 109, 19553-5	58

1900	Size and ligand effects on the electrochemical and spectroelectrochemical responses of CdSe nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 3204-9	124
1899	Electroluminescence from a single-nanocrystal transistor. 2005 , 5, 2257-61	54
1898	Structural analysis and growing mechanisms for long SnO2nanorods synthesized by spray pyrolysis. 2005 , 16, 688-694	63
1897	Synthesis of Main-Chain Polyoxometalate-Containing Hybrid Polymers and Their Applications in Photovoltaic Cells. 2005 , 17, 402-408	114
1896	Size-dependent electrochemical behavior of thiol-capped CdTe nanocrystals in aqueous solution. 2005 , 109, 1094-100	196
1895	Lead sulfide nanocrystal/conducting polymer solar cells. 2005 , 6038, 276	2
1894	Surface-enhanced Raman scattering and polarized photoluminescence from catalytically grown CdSe nanobelts and sheets. 2005 , 127, 11262-8	134
1893	Effect of Thermal Sintering and Ultraviolet Irradiating on Photoluminescence of Self-Assembled CdSe Nanoparticulate Films. 2005 , 26, 449-454	
1892	Hybrid zinc oxide conjugated polymer bulk heterojunction solar cells. 2005 , 109, 9505-16	769
1891	General route to vertical ZnO nanowire arrays using textured ZnO seeds. 2005 , 5, 1231-6	1280
1890	Controlled synthesis of LaPO(4) and CePO(4) nanorods/nanowires. 2005, 16, 282-6	82
1889	Selective growth of PbSe on one or both tips of colloidal semiconductor nanorods. 2005 , 5, 445-9	216
1888	Band-structure-corrected local density approximation study of semiconductor quantum dots and wires. 2005 , 72,	199
1887	Enhanced third-order nonlinear optical properties in dendrimer-metal nanocomposites. 2005 , 5, 2379-84	68
1886	Nanowire-based dye-sensitized solar cells. 2005 , 86, 053114	905
1885	Large-scale synthesis of TiO2 nanorods via nonhydrolytic sol-gel ester elimination reaction and	349
j	their application to photocatalytic inactivation of E. coli. 2005 , 109, 15297-302	3.12
1884	Option lastropic proporties of polymor papacrystal compositor active at pear infrared wavelengths	27

1882	Synthesis of quantum-sized cubic ZnS nanorods by the oriented attachment mechanism. 2005 , 127, 5662-70	420
1881	Water-soluble polythiophene∏anocrystalline TiO2 solar cells. 2005 , 86, 153501	108
1880	Organic and nano-structured composite photovoltaics: An overview. 2005 , 20, 3167-3179	180
1879	Photovoltaic cells using composite nanoclusters of porphyrins and fullerenes with gold nanoparticles. 2005 , 127, 1216-28	429
1878	Electron-Hole Pair Relaxation Dynamics in Binary Copper-Based Semiconductor Quantum Dots. 2005 , 152, G427	15
1877	Colloidal TiO2 nanocrystals/MEH-PPV nanocomposites: photo(electro)chemical study. 2005 , 109, 1554-62	82
1876	Synthesis, Characterization, and Field-Effect Transistor Performance of Carboxylate-Functionalized Polythiophenes with Increased Air Stability. 2005 , 17, 4892-4899	174
1875	Electric-field-induced charge transfer between gold nanoparticle and capping 2-naphthalenethiol and organic memory cells. 2005 , 86, 123507	143
1874	Quenching of semiconductor quantum dot photoluminescence by a pi-conjugated polymer. 2005 , 109, 15927-32	63
1873	All-thiophene donor acceptor blends: photophysics, morphology and photoresponse. 2005, 15, 895-901	18
1872	Synthesis and optical properties of thiol-stabilized PbS nanocrystals. 2005 , 21, 1086-90	87
1871	Biomimetic assemblies of carbon nanostructures for photochemical energy conversion. 2005 , 109, 11432-41	112
1870	Hybrid Organic-Nanocrystal Solar Cells. 2005 , 30, 41-44	225
1869	Hybrid polymer solar cells based on zinc oxide. 2005 , 15, 2985	128
1868	Efficient photoconductive devices at infrared wavelengths using quantum dot-polymer nanocomposites. 2005 , 87, 073110	97
1867	Hydrogen bonding effects on the surface structure and photoelectrochemical properties of nanostructured SnO2 electrodes modified with porphyrin and fullerene composites. 2005 , 109, 18465-74	32
1866	Making silole photovoltaically active by attaching carbazolyl donor groups to the silolyl acceptor core. 2005 , 3583-5	63
1865	Multifunctional Hybrid Materials Based on Conducting Organic Polymers. Nanocomposite Systems with Photo-Electro-Ionic Properties and Applications. 2005 , 210-269	1

1864	Charging effects in a CdSe nanotetrapod. 2005 , 109, 23330-5	24
1863	A large interconnecting network within hybrid MEH-PPV/TiO2nanorod photovoltaic devices. 2006 , 17, 5387-5392	102
1862	Electrodeposition of mesoporous CdTe films with the aid of citric acid from lyotropic liquid crystalline phases. 2006 , 16, 3207	23
1861	A photoelectrochemical device with a nanostructured SnO2 electrode modified with composite clusters of porphyrin-modified silica nanoparticle and fullerene. 2006 , 110, 11399-405	50
1860	Thermal decomposition of single source precursors and the shape evolution of CdS and CdSe nanocrystals. 2006 , 16, 467-473	58
1859	Self-Organized Nanoscale Materials. 2006,	11
1858	High-efficiency carrier multiplication and ultrafast charge separation in semiconductor nanocrystals studied via time-resolved photoluminescence. 2006 , 110, 25332-8	168
1857	Photopatterned semiconductor nanocrystals and their electroluminescence from hybrid light-emitting devices. 2006 , 22, 2407-10	47
1856	Symmetry considerations in CdSe nanocrystals. 2006 , 6, 501-4	29
1855	Selective interaction of single-walled carbon nanotubes with conducting dendrimer. 2006 , 15, 95-99	14
1854	Carbodithioate-Containing Oligo- and Polythiophenes for Nanocrystals' Surface Functionalization. 2006 , 18, 4817-4826	65
1853	Controlled nucleation and growth of CdS nanoparticles in a polymer matrix. 2006 , 110, 12603-9	65
1852	Hybrid junctions of zinc(II) and magnesium(II) phthalocyanine with wide-band-gap semiconductor nano-oxides: spectroscopic and photoelectrochemical characterization. 2006 , 110, 24424-32	24
1851	Synthesis, surface functionalization, and properties of freestanding silicon nanocrystals. 2006 , 4160-8	217
1850	Control of the Morphology and Size of PbS Nanowires Using Gold Nanoparticles. 2006 , 18, 5965-5972	52
1849	Hybrid nanocrystal/polymer solar cells based on tetrapod-shaped CdSe(x)Te(1-x) nanocrystals. 2006 , 17, 4041-7	152
1848	Surface Modification of CdSe and CdSe/ZnS Semiconductor Nanocrystals with Poly(N,N-dimethylaminoethyl methacrylate). 2006 , 39, 3664-3672	86
1847	Iridium-complex modified CdSe/ZnS quantum dots; a conceptual design for bi-functionality toward imaging and photosensitization. 2006 , 615-7	64

1	1846	Synthesis, optical, and electrochemical properties of a new family of dendritic oligothiophenes. 2006 , 71, 9475-83		25
1	1845	Exciton splitting and carrier transport across the amorphous-silicon/polymer solar cell interface. 2006 , 89, 252102		67
1	1844	Infrared photodiode based on colloidal PbSe nanocrystal quantum dots. 2006 , 5, 362-367		29
1	1843	Optimization of PbSe Nanocrystal Quantum Dots/P3HT Hybrid Photovoltaic Devices. 2006,		
1	1842	Loss of photocurrent efficiency in low mobility semiconductors: Analytic approach to space charge effects. 2006 , 89, 013504		14
1	1841	Exciton transitions in tetrapod-shaped CdTe nanocrystals investigated by photomodulated transmittance spectroscopy. 2006 , 89, 094104		10
1	1840	Dopant-configurable polymeric materials for electrically switchable devices. 2006 , 16, 4160		14
1	1839	Photoluminescence spectra of a conjugated polymer: from films and solutions to single molecules. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 5569-76	3.6	59
1	1838	Efficient photocurrent generation by SnO2 electrode modified electrophoretically with composite clusters of porphyrin-modified silica microparticle and fullerene. 2006 , 406-8		21
1	1837	InAs(x)Sb(1-x) alloy nanocrystals for use in the near infrared. 2006 , 4811-3		13
	1837 1836	InAs(x)Sb(1-x) alloy nanocrystals for use in the near infrared. 2006 , 4811-3 Improved efficiency of photovoltaics based on CdSe nanorods and poly(3-hexylthiophene) nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3557-60	3.6	13
1		Improved efficiency of photovoltaics based on CdSe nanorods and poly(3-hexylthiophene)	3.6	
1	1836	Improved efficiency of photovoltaics based on CdSe nanorods and poly(3-hexylthiophene) nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3557-60 Surface-initiated growth of conjugated polymers for functionalization of electronically active	3.6	198
1	1836	Improved efficiency of photovoltaics based on CdSe nanorods and poly(3-hexylthiophene) nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3557-60 Surface-initiated growth of conjugated polymers for functionalization of electronically active nanoporous networks: synthesis, structure and optical properties. 2006 , 16, 3721	3.6	198 36
1	1836 1835 1834	Improved efficiency of photovoltaics based on CdSe nanorods and poly(3-hexylthiophene) nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3557-60 Surface-initiated growth of conjugated polymers for functionalization of electronically active nanoporous networks: synthesis, structure and optical properties. 2006 , 16, 3721 Microwave synthesis of highly aligned ultra narrow semiconductor rods and wires. 2006 , 128, 2790-1 Synthesis of high quality zinc-blende CdSe nanocrystals and their application in hybrid solar cells.	3.6	198 36 279
1 1 1	1836 1835 1834	Improved efficiency of photovoltaics based on CdSe nanorods and poly(3-hexylthiophene) nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3557-60 Surface-initiated growth of conjugated polymers for functionalization of electronically active nanoporous networks: synthesis, structure and optical properties. 2006 , 16, 3721 Microwave synthesis of highly aligned ultra narrow semiconductor rods and wires. 2006 , 128, 2790-1 Synthesis of high quality zinc-blende CdSe nanocrystals and their application in hybrid solar cells. 2006 , 17, 4736-42 Simultaneous phase- and size-controlled synthesis of TiO(2) nanorods via non-hydrolytic sol-gel	3.6	198 36 279
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1836 1835 1834 1833	Improved efficiency of photovoltaics based on CdSe nanorods and poly(3-hexylthiophene) nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3557-60 Surface-initiated growth of conjugated polymers for functionalization of electronically active nanoporous networks: synthesis, structure and optical properties. 2006 , 16, 3721 Microwave synthesis of highly aligned ultra narrow semiconductor rods and wires. 2006 , 128, 2790-1 Synthesis of high quality zinc-blende CdSe nanocrystals and their application in hybrid solar cells. 2006 , 17, 4736-42 Simultaneous phase- and size-controlled synthesis of TiO(2) nanorods via non-hydrolytic sol-gel reaction of syringe pump delivered precursors. 2006 , 110, 24318-23 Quantum dot solar cells. harvesting light energy with CdSe nanocrystals molecularly linked to	3.6	198 36 279 135
11 11 11 11	1836 1835 1834 1833 1832	Improved efficiency of photovoltaics based on CdSe nanorods and poly(3-hexylthiophene) nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3557-60 Surface-initiated growth of conjugated polymers for functionalization of electronically active nanoporous networks: synthesis, structure and optical properties. 2006 , 16, 3721 Microwave synthesis of highly aligned ultra narrow semiconductor rods and wires. 2006 , 128, 2790-1 Synthesis of high quality zinc-blende CdSe nanocrystals and their application in hybrid solar cells. 2006 , 17, 4736-42 Simultaneous phase- and size-controlled synthesis of TiO(2) nanorods via non-hydrolytic sol-gel reaction of syringe pump delivered precursors. 2006 , 110, 24318-23 Quantum dot solar cells. harvesting light energy with CdSe nanocrystals molecularly linked to mesoscopic TiO2 films. 2006 , 128, 2385-93	3.6	198 36 279 135 105

1828	Excitonic effects and optical properties of passivated CdSe clusters. 2006, 97, 096401	65
1827	Synthesis and formation mechanism of nanoneedles and nanorods of manganese oxide octahedral molecular sieve using an ionic liquid. 2006 , 110, 6609-14	81
1826	Luminescent Polycrystalline Cadmium Selenide Nanowires Synthesized by Cyclic Electrodeposition/Stripping Coupled with Step Edge Decoration. 2006 , 18, 3432-3441	34
1825	Regioregular copolymers of 3-alkoxythiophene and their photovoltaic application. 2006 , 128, 8980-6	264
1824	Dendron-tethered and templated CdS quantum dots on single-walled carbon nanotubes. 2006 , 128, 7505-9	80
1823	Shape and aggregation control of nanoparticles: not shaken, not stirred. 2006 , 128, 968-75	437
1822	Direct observation of electron-to-hole energy transfer in CdSe quantum dots. 2006 , 96, 057408	182
1821	Probing surfaces with single-polymer atomic force microscope experiments. 2006 , 1, MR1	23
1820	Electric-field-assisted assembly of perpendicularly oriented nanorod superlattices. 2006 , 6, 1479-82	333
1819	Layered Molecular Ordering of Self-Organized Poly(3-hexylthiophene) Thin Films on Hydrophobized Surfaces. 2006 , 39, 5843-5847	70
1818	Polythiophene Derivatives -Based Materials for Organic Field Effect Transistors and Photovoltaic Cells. 2006 ,	
1818 1817		3762
	Cells. 2006, Metal and Semiconductor Nanowire Network Thin Films with Hierarchical Pore Structures. 2006, 18, 4231-423	3 7 62
1817	Cells. 2006, Metal and Semiconductor Nanowire Network Thin Films with Hierarchical Pore Structures. 2006, 18, 4231-423	
1817 1816	Cells. 2006, Metal and Semiconductor Nanowire Network Thin Films with Hierarchical Pore Structures. 2006, 18, 4231-423 Controlled assembly of hybrid bulk-heterojunction solar cells by sequential deposition. 2006, 110, 25543-6 Synthesis and Absorption Spectra of Poly(3-(phenylenevinyl)thiophene)s with Conjugated Side Chains. 2006, 39, 594-603	72
1817 1816 1815	Cells. 2006, Metal and Semiconductor Nanowire Network Thin Films with Hierarchical Pore Structures. 2006, 18, 4231-423 Controlled assembly of hybrid bulk-heterojunction solar cells by sequential deposition. 2006, 110, 25543-6 Synthesis and Absorption Spectra of Poly(3-(phenylenevinyl)thiophene)s with Conjugated Side Chains. 2006, 39, 594-603	7 ²
1817 1816 1815 1814	Cells. 2006, Metal and Semiconductor Nanowire Network Thin Films with Hierarchical Pore Structures. 2006, 18, 4231-423 Controlled assembly of hybrid bulk-heterojunction solar cells by sequential deposition. 2006, 110, 25543-6 Synthesis and Absorption Spectra of Poly(3-(phenylenevinyl)thiophene)s with Conjugated Side Chains. 2006, 39, 594-603 Nanomaterial Development for Polymeric Solar Cells. 2006, Surfactant-assisted synthesis of alpha-Fe2O3 nanotubes and nanorods with shape-dependent magnetic properties. 2006, 110, 15218-23	72 174 1

1810	Are Ionic Liquids Really a Boon for the Synthesis of Inorganic Materials? A General Method for the Fabrication of Nanosized Metal Fluorides. 2006 , 18, 3162-3168	177
1809	Electronic transport of n-type CdSe quantum dot films: Effect of film treatment. 2006 , 99, 104315	95
1808	Surface-functionalized CdSe nanorods for assembly in diblock copolymer templates. 2006 , 128, 3898-9	189
1807	Hybrid organic-inorganic exciton-polaritons in a strongly coupled microcavity. 2006, 74,	56
1806	Phase-Selective Synthesis of Copper Sulfide Nanocrystals. 2006 , 18, 6170-6177	117
1805	The Confined Universe of Electrons in Semiconductor Nanocrystals. 265-291	
1804	Structure and photoelectrochemical properties of phthalocyanine and perylene diimide composite clusters deposited electrophoretically on nanostructured SnO2 electrodes. 2006 , 22, 5497-503	19
1803	Homogeneously alloyed CdSxSe1-x nanocrystals: synthesis, characterization, and composition/size-dependent band gap. 2006 , 128, 12299-306	271
1802	Multiple wurtzite twinning in CdTe nanocrystals induced by methylphosphonic acid. 2006, 128, 748-55	150
1801	Preparation of ultrafine chalcopyrite nanoparticles via the photochemical decomposition of molecular single-source precursors. 2006 , 6, 1218-23	153
1800	Ultrafast photoinduced charge separation dynamics in polythiophene/SnO2 nanocomposites. 2006 , 110, 25496-503	47
1799	Resonance energy transfer from organic chromophores to fullerene molecules. 2006 , 99, 093521	69
1798	Interface engineering for solid-state dye-sensitised nanocrystalline solar cells: the use of an organic redox cascade. 2006 , 535-7	32
1797	Photoinduced charge transfer and efficient solar energy conversion in a blend of a red polyfluorene copolymer with CdSe nanoparticles. 2006 , 6, 1789-93	145
1796	Structural characterization of self-assembled multifunctional binary nanoparticle superlattices. 2006 , 128, 3620-37	412
1795	Electron-hole dynamics in CdTe tetrapods. 2006 , 110, 17334-8	34
1794	Single-Crystalline CdSe Nanostructures: from Primary Grains to Oriented Nanowires. 2006 , 18, 6094-6096	30
1793	Fluorescence blinking statistics from CdSe core and core/shell nanorods. 2006 , 110, 23221-7	98

1792	Nanocrystal shape and the mechanism of exciton spin relaxation. 2006 , 6, 1765-71	43
1791	Electrochemistry of conductive polymers 38. Electrodeposited poly(3,4-ethylenedioxy-thiophene) studied by current sensing atomic force microscopy. 2006 , 110, 14874-80	53
1790	Nanoparticle-induced negative differential resistance and memory effect in polymer bistable light-emitting device. 2006 , 88, 123506	76
1789	Synthesis, characterization, and self-assembly of pencil-shaped CoO nanorods. 2006 , 128, 9753-60	194
1788	Synthesis of CdSe, ZnSe, and ZnxCd1-xSe nanocrystals and their silica sheathed core/shell structures. 2006 , 45, 4922-7	56
1787	A simple way to prepare PbS nanocrystals with morphology tuning at room temperature. 2006 , 110, 6649-54	68
1786	Self-assembly of laterally-tethered nanorods. 2006 , 6, 2406-13	84
1785	Seeded growth of asymmetric binary nanocrystals made of a semiconductor TiO2 rodlike section and a magnetic gamma-Fe2O3 spherical domain. 2006 , 128, 16953-70	153
1784	Formation of nearly monodisperse In2O3 nanodots and oriented-attached nanoflowers: hydrolysis and alcoholysis vs pyrolysis. 2006 , 128, 10310-9	277
1783	Shape control of PbSe nanocrystals using noble metal seed particles. 2006 , 6, 709-14	99
1782	Observation of enhanced energy transfer in individual quantum dot-oligophenylene vinylene nanostructures. 2006 , 128, 3506-7	79
1781	Efficient photoinduced charge transfer in TiO2nanorod/conjugated polymer hybrid materials. 2006 , 17, 5781-5785	56
1780	Fractal-like self-assembly of oligo(p-phenylene vinylene) capped gold nanoparticles. 2006 , 128, 686-7	52
1780 1779	Fractal-like self-assembly of oligo(p-phenylene vinylene) capped gold nanoparticles. 2006 , 128, 686-7 Synthesis and Characterization of Luminescent Conjugated PolymerBilica Composite Spheres. 2006 , 18, 1213-1218	52 29
,	Synthesis and Characterization of Luminescent Conjugated PolymerBilica Composite Spheres.	
1779	Synthesis and Characterization of Luminescent Conjugated PolymerBilica Composite Spheres. 2006 , 18, 1213-1218	29
1779	Synthesis and Characterization of Luminescent Conjugated PolymerBilica Composite Spheres. 2006, 18, 1213-1218 Hollow PbWO4 nanospindles via a facile sonochemical route. 2006, 45, 8403-7 2,4,5-Triphenylimidazole Nanowires with Fluorescence Narrowing Spectra Prepared through the	29 92

Influence of single-walled carbon nanotubes induced crystallinity enhancement and morphology change on polymer photovoltaic devices. 2006 , 128, 16827-33	207
1773 Synthesis of water-soluble photoluminescent germanium nanocrystals. 2006 , 17, 3745-3749	48
1772 "Self-corralling" nanorods under an applied electric field. 2006 , 6, 2066-9	203
1771 Soft Synthesis of Inorganic Nanorods, Nanowires, and Nanotubes. 2006 , 101-158	1
Comparison of electrode structures and photovoltaic properties of porphyrin-sensitized solar cells with TiO2 and Nb, Ge, Zr-added TiO2 composite electrodes. 2006 , 22, 11405-11	99
Efficient CdSe/CdS quantum dot light-emitting diodes using a thermally polymerized hole transport layer. 2006 , 6, 463-7	448
1768 Polyaniline/TiO2 solar cells. 2006 , 156, 721-723	77
Enhanced photovoltaic cells efficiency via incorporation of high electron-deficient oxadiazole moieties on side chains of poly(phenylene vinylene)s and poly(fluorene)s. 2006 , 156, 949-953	21
1766 Porosity-induced blueshift of photoluminescence in CdSe. 2006 , 100, 053517	8
1765 . 2006,	12
1765 . 2006 , 1764 Solvothermal Fabrication of Monodisperse Zinc-blende CdS Nanocrystals. 2006 , 35, 1388-1389	12
1764 Solvothermal Fabrication of Monodisperse Zinc-blende CdS Nanocrystals. 2006 , 35, 1388-1389 Hydrothermal Synthesis of Metastable VO2Nanorods as Cathode Materials for Lithium Ion	1
Solvothermal Fabrication of Monodisperse Zinc-blende CdS Nanocrystals. 2006 , 35, 1388-1389 Hydrothermal Synthesis of Metastable VO2Nanorods as Cathode Materials for Lithium Ion Batteries. 2006 , 35, 1280-1281	1 20
1764 Solvothermal Fabrication of Monodisperse Zinc-blende CdS Nanocrystals. 2006, 35, 1388-1389 Hydrothermal Synthesis of Metastable VO2Nanorods as Cathode Materials for Lithium Ion Batteries. 2006, 35, 1280-1281 1762 What's so special about nanocrystalline semiconductors?. 2006, 2, 242 Bulk Sensitization of Inorganic Semiconductors with Organic Guest Molecules: Zink	1 20 2
1764 Solvothermal Fabrication of Monodisperse Zinc-blende CdS Nanocrystals. 2006, 35, 1388-1389 1763 Hydrothermal Synthesis of Metastable VO2Nanorods as Cathode Materials for Lithium Ion Batteries. 2006, 35, 1280-1281 1762 What's so special about nanocrystalline semiconductors?. 2006, 2, 242 Bulk Sensitization of Inorganic Semiconductors with Organic Guest Molecules: Zink Phthalocyanines Embedded in μc-Si and ZnSe Host Matrices. 2006,	1 20 2
1764 Solvothermal Fabrication of Monodisperse Zinc-blende CdS Nanocrystals. 2006, 35, 1388-1389 1763 Hydrothermal Synthesis of Metastable VO2Nanorods as Cathode Materials for Lithium Ion Batteries. 2006, 35, 1280-1281 1762 What's so special about nanocrystalline semiconductors?. 2006, 2, 242 Bulk Sensitization of Inorganic Semiconductors with Organic Guest Molecules: Zink Phthalocyanines Embedded in μc-Si and ZnSe Host Matrices. 2006, 1760 Controlling Length and Monitoring Growth of Gold Nanorods. 2006, 53, 1343-1348	1 20 2

1756	One-pot synthesis of CdTe nanocrystals and shape control of luminescent CdTe-cystine nanocomposites. 2006 , 2, 476-80	154
1755	Shape control of II-VI semiconductor nanomaterials. 2006 , 2, 316-29	335
1754	Synthesis of TiO2-Au composites by titania-nanorod-assisted generation of gold nanoparticles at aqueous/nonpolar interfaces. 2006 , 2, 413-21	52
1753	Effect of the orientation of CdSe nanorods on the electron mobility of CdSe/P4VP nanodomains self-assembled within a poly(styrene-b-4-vinylpyridine) diblock copolymer thin film. 2006 , 2, 359-63	7
1752	Site-selective integration of monolayer-protected inorganic nanoparticles onto surface monolayer templates by a solvent-induced lift-off process. 2006 , 2, 1130-3	9
1751	Luminescence studies of heat treatment influence on size distribution of CdTe nanocrystals. 2006 , 3, 1074-1077	1
1750	Synthesis and properties of polythiophenes with conjugated side-chains containing carbon@arbon double and triple bonds. 2006 , 44, 2206-2214	44
1749	Synthesis and perspectives of complex crystalline nano-structures. 2006 , 203, 1329-1336	9
1748	Shape-selective synthesis of IIIVI semiconductor nanowires. 2006 , 243, 3301-3305	9
1747	Selected-Control Synthesis and the Phase Transition of Fe3O4 and ⊞eOOH in Ethanol/Water Media. 2006 , 89, 1739-1741	7
1746	Study of colloidal quantum-dot surfaces using an innovative thin-film positron 2D-ACAR method. 2006 , 5, 23-6	56
1745	Excitons in nanoscale systems. 2006 , 5, 683-96	981
1744	Near-infrared photosensitive composites with electron conductivity. 2006 , 40, 336-340	4
1743	Conjugated polymer photovoltaic devices and materials. 2006 , 9, 568-577	71
1742	From surface science to nanotechnology. 2006 , 113, 133-140	29
1741	Synthesis and characterization of mondispersed CdSe nanocrystals at lower temperature. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 272, 111-116	31
1740	Photoluminescence of CdSe/ZnS core/shell quantum dots enhanced by energy transfer from a phosphorescent donor. 2006 , 424, 120-125	89
1739	Optical spectroscopic studies of composites of conducting PANI with CdSe and ZnO nanocrystals. 2006 , 433, 154-158	23

1738	Tubular end-capped electrodeposited CdSe nanofibers: Enhanced photochemistry. 2006 , 8, 223-226	26
1737	Photoelectrochemical properties of hybrid junctions based on zinc phthalocyanine and semiconducting colloidal nanocrystals. 2006 , 51, 5120-5124	7
1736	₱bO2 hollow nanostructures from the complex precursor: A self-produced intermediate template route. 2006 , 89, 300-305	5
1735	120MeV Si9+ ion irradiation effects on poly(3-methylthiophene) conducting polymer. 2006 , 251, 451-456	11
1734	Holographic recording in a series of conjugated polymers. <i>Optical Materials</i> , 2006 , 28, 350-354 3.3	9
1733	Self-assembly of doped semiconductor nanocrystals leading to the formation of highly luminescent nanorods. 2006 , 252, 3968-3971	5
1732	Synthesis of size-controlled CdSe quantum dots and characterization of CdSetonjugated polymer blends for hybrid solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 179, 135-14 ¹⁻⁷	68
1731	Enhanced photoresponses of polypyrrole on surface modified TiO2 with self-assembled monolayers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 184, 234-239	56
1730	Fabrication of a quantum dot-polymer matrix by layer-by-layer conjugation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 183, 285-291	21
1729	Determination of photo conversion efficiency of nanotubular titanium oxide photo-electrochemical cell for solar hydrogen generation. 2006 , 159, 1258-1265	88
1728	Synthesis and characterization of Au core-Au-Ag shell nanoparticles from gold seeds: impacts of glycine concentration and pH. 2006 , 301, 145-54	55
1727	Hybrids of colloidal silica and waterborne polyurethane. 2006 , 302, 123-32	80
1726	A solvothermal route to size- and shape-controlled CdSe and CdTe nanocrystals. 2006 , 286, 83-90	61
1725	Investigation of charge transport, photo generated electron transfer and photovoltaic response of iron phthalocyanine (FePc):TiO2 thin films. 2006 , 90, 32-45	27
1724	Dye sensitized photovoltaic cells: Attaching conjugated polymers to zwitterionic ruthenium dyes. 2006 , 90, 142-165	52
1723	Well-aligned CdS nanorod/conjugated polymer solar cells. 2006 , 90, 166-174	90
1722	Dye-sensitized solar cells based on semiconductor morphologies with ZnO nanowires. 2006 , 90, 607-622	317
1721	Charge generation and photovoltaic properties of hybrid solar cells based on ZnO and copper phthalocyanines (CuPc). 2006 , 90, 933-943	50

1720	Heteropolyacid-impregnated PVDF as a solid polymer electrolyte for dye-sensitized solar cells. 2006 , 90, 1715-1720	54
1719	Bi-layer photovoltaic devices with PPQ as the electron acceptor layer. 2006 , 90, 1705-1714	8
1718	On the use of Ga I h eutectic and halogen light source for testing P3HT B CBM organic solar cells. 2006 , 90, 1828-1839	43
1717	Photovoltaic performance and stability of CdTe/polymeric hybrid solar cells using a C60 buffer layer. 2006 , 90, 1849-1858	26
1716	Analysis of electrical parameters in heterojunctions based on poly 3-octylthiophene and cadmium sulfide thin films. 2006 , 90, 2421-2428	16
1715	Electronic structure and optical absorption spectra of CdSe covered with ZnSe and ZnS epilayers. 2006 , 137, 332-337	9
1714	Structure and photoelectrochemical properties of nanostructured SnO2 electrodes deposited electrophoretically with the composite clusters of porphyrin-modified gold nanoparticle with a long spacer and fullerene. 2006 , 62, 1955-1966	22
1713	Supramolecular nanostructured assemblies of different types of porphyrins with fullerene using TiO2 nanoparticles for light energy conversion. 2006 , 62, 1937-1946	63
1712	Photoreflectance study of multilayer structures of nanocrystalline CdSe in insulator matrix. 2006 , 495, 338-342	9
1711	Synthesis and photoluminescence of poly(3-hexylthiophene)/titania nanostructured hybrids. 2006 , 511-512, 182-186	19
1710	Novel poly(3-methylthiophene)-TiO2 hybrid materials for photovoltaic cells. 2006 , 511-512, 199-202	28
1709	Recent developments in IIIVI and IIIIVI semiconductors and their applications in solar cells. 2006 , 16, 1597-1602	185
1708	The effect of active layer thickness and composition on the performance of bulk-heterojunction solar cells. 2006 , 100, 094503	224
1707	Tunable light emission from quantum-confined excitons in TiSi2-catalyzed silicon nanowires. 2006 , 6, 2140-4	98
1706	First principles study of CdSe quantum dots: Stability, surface unsaturations, and experimental validation. 2006 , 88, 231910	59
1705	Hybrid organic-inorganic nanomaterials: ligand effects. 2006 , 36, 261-265	23
1704	Sol-Gel assembly of CdSe nanoparticles to form porous aerogel networks. 2006 , 128, 7964-71	149
1703	Enhanced Electroluminescence of Poly(2-methoxy-5-(2?-ethylhexyloxy)-1,4-phenylene vinylene) Films in the Presence of TiO2 Nanocrystals. 2006 , 13, 229-235	1

1702	The influence of nanoparticle fillers on the morphology of a spin-cast thin film polymer blend. 2006 , 284, 482-488	10
1701	Controlled synthesis of trigonal selenium nanowires via a facile solution route. 2006 , 83, 281-284	14
1700	Second harmonic generation in zinc oxide nanorods. 2006 , 84, 351-355	61
1699	Effects of carrier mobility on photocurrent generation in TiO2/poly(alkylthiophene) photovoltaic devices. 2006 , 14, 630-633	3
1698	Directing energy flow through quantum dots: towards nanoscale sensing. 2006, 384, 564-71	54
1697	Triplet formation from the charge-separated state in blends of MDMO-PPV with cyano-containing acceptor polymers. 2006 , 511-512, 333-337	27
1696	Seeded growth of InP and InAs quantum rods using indium acetate and myristic acid. 2006, 26, 788-794	22
1695	Synthesis and characterization of monodisperse CdSe quantum dots in different organic solvents. 2006 , 1, 378-383	7
1694	Growth of Au nanocrystals on CdS nanorods. 2006 , 12, 351-355	14
1693	A simple synthesis and characterization of CuS nanocrystals. <i>Bulletin of Materials Science</i> , 2006 , 29, 1-5 1.7	41
1692	Controlled synthesis and characterization of covellite (CuS) nanoflakes. 2006, 98, 298-303	62
1691	Synthesis and characterization of single crystalline PbO nanorods via a facile hydrothermal method. 2006 , 100, 351-354	34
1690	Synthesis of CdSxSe1⊠ nanorods via a solvothermal route. 2006 , 41, 99-109	17
1689	Comparative behavior of CdS and CdSe quantum dots in poly(3-hexylthiophene) based nanocomposites. 2006 , 41, 198-208	22
1688	Novel rosette-shaped CdS microparticle with high surface area fabricated by lyotropic liquid crystal templating. 2006 , 41, 899-904	5
1687	Nano-CdS by polymer-inorganic solid-state reaction: Visible light pristine photocatalyst for hydrogen generation. 2006 , 41, 2219-2225	36
1686	Hydrothermal synthesis of single-crystal VO2(B) nanobelts. 2006 , 41, 1985-1989	22
1685	Synthesis of liposomes-templated CdSe hollow and solid nanospheres. 2006 , 60, 11-14	22

1684	Anionic surfactant-assisted hydrothermal synthesis of high-aspect-ratio ZnO nanowires and their photoluminescence property. 2006 , 60, 2777-2782		57
1683	Colloidal CdSe nanocrystals passivated by a dye-labeled multidentate polymer: quantitative analysis by size-exclusion chromatography. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2221-4	16.4	56
1682	Enhanced collective electron transport by CdSe quantum dots confined in the poly(4-vinylpyridine) nanodomains of a poly(styrene-b-4-vinylpyridine) diblock copolymer thin film. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 1449-53	16.4	29
1681	From single molecules to nanoscopically structured functional materials: Au nanocrystal growth on TiO2 nanowires controlled by surface-bound silicatein. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4803-9	16.4	67
1680	Shape control of semiconductor and metal oxide nanocrystals through nonhydrolytic colloidal routes. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 3414-39	16.4	1003
1679	Synthesis, optical properties, and self-assembly of ultrathin hexagonal In2S3 nanoplates. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4608-12	16.4	141
1678	Facile and Selected-Control Synthesis of MnO2 Nanorods and Their Magnetic Properties. 2006 , 2006, 2313-2317		39
1677	Heterogeneous charge transfer of colloidal nanocrystals in ionic liquids. 2006 , 7, 77-81		24
1676	Alignment of colloidal CdS nanowires embedded in polymer nanofibers by electrospinning. 2006 , 7, 102	?-6	88
1675	Colloidal CdSe Nanocrystals Passivated by a Dye-Labeled Multidentate Polymer: Quantitative Analysis by Size-Exclusion Chromatography. <i>Angewandte Chemie</i> , 2006 , 118, 2279-2282	3.6	5
1674	Enhanced Collective Electron Transport by CdSe Quantum Dots Confined in the Poly(4-vinylpyridine) Nanodomains of a Poly(styrene-b-4-vinylpyridine) Diblock Copolymer Thin Film. <i>Angewandte Chemie</i> , 2006 , 118, 1477-1481	3.6	2
1673	From Single Molecules to Nanoscopically Structured Functional Materials: Au Nanocrystal Growth on TiO2 Nanowires Controlled by Surface-Bound Silicatein. <i>Angewandte Chemie</i> , 2006 , 118, 4921-4927	3.6	14
1672	Formkontrolle von Halbleiter- und Metalloxid-Nanokristallen durch nichthydrolytische Kolloidverfahren. <i>Angewandte Chemie</i> , 2006 , 118, 3492-3517	3.6	77
1671	Synthesis, Optical Properties, and Self-Assembly of Ultrathin Hexagonal In2S3 Nanoplates. <i>Angewandte Chemie</i> , 2006 , 118, 4724-4728	3.6	15
1670	Covalent Layer-by-Layer Assembly of Conjugated Polymers and CdSe Nanoparticles: Multilayer Structure and Photovoltaic Properties. 2006 , 16, 542-548		132
1669	Thiophenol-Modified CdS Nanoparticles Enhance the Luminescence of Benzoxyl Dendron-Substituted Polyfluorene Copolymers. 2006 , 16, 909-916		24
1668	Hybrid Solar Cells from Regioregular Polythiophene and ZnO Nanoparticles. 2006 , 16, 1112-1116		508
1667	Hybrid Solar Cells Using HgTe Nanocrystals and Nanoporous TiO2 Electrodes. 2006 , 16, 1095-1099		63

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1666	High-Yield Fabrication and Electrochemical Characterization of Tetrapodal CdSe, CdTe, and CdSexTe1N Nanocrystals. 2006 , 16, 1705-1716	203
1665	Photoluminescence and Electroluminescence from Tris(8- hydroxyquinoline)aluminum Nanowires Prepared by Adsorbent-Assisted Physical Vapor Deposition. 2006 , 16, 1985-1991	136
1664	Synthesis of Thin, Rectangular C60 Nanorods Using m-Xylene as a Shape Controller. 2006 , 18, 1883-1888	163
1663	The Microemulsion Synthesis of Hydrophobic and Hydrophilic Silicon Nanocrystals. 2006 , 18, 2053-2056	128
1662	Ordered Supramolecular Assembly of Porphyrin Bullerene Composites on Nanostructured SnO2 Electrodes. 2006 , 18, 2549-2552	51
1661	Growth of CdSe Quantum Rods and Multipods Seeded by Noble-Metal Nanoparticles. 2006 , 18, 1978-1982	72
1660	Anisotropic Growth of PbSe Nanocrystals on Auffe3O4 Hybrid Nanoparticles. 2006, 18, 1889-1894	86
1659	Correlation Between Device Performance and Photo-Generated Carriers Escape Order in III-V p-i-n Quantum Confined Solar Cells. 2006 ,	
1658	Modelling the formation of high aspect CdSe quantum wires: axial-growth versus oriented-attachment mechanisms. 2006 , 17, 5707-14	33
1657	Photovoltaic Devices from Multi-Armed CdS Nanorods and Conjugated Polymer Composites. 2006 , 23, 3345-3348	10
1656	Surface and interface morphology observation and photovoltaic properties of C60/conducting polymer interpenetrating heterojunction devices. 2006 , 39, 1521-1524	9
1655	Band gap modulation in CdSxSe1\(\text{N}\) nanowires synthesized by a pulsed laser ablation with the Au catalyst. 2006 , 17, 3775-3778	18
1654	Well-organized structures of ZnS semiconductor nanocrystals using amphiphilic triblock copolymer aggregates as templates. 2006 , 17, 3313-3318	6
1653	Deterministic shape-selective synthesis of nanowires, nanoribbons and nanosaws by steady-state vapour-transport. 2006 , 17, 1046-51	22
1652	Solution-processed infrared photovoltaic devices. 2006,	1
1651	Morphology control of silicon nanotips fabricated by electron cyclotron resonance plasma etching. 2006 , 24, 308	17
1650	Resonant electron transfer and luminescent enhancement in a toluene suspension of Si nanocrystals. 2006 , 125, 054713	7
1649	Criticality of Electron and Hole Escape Sequence in Nano-Structured Photovoltaic Devices. 2006 , 945, 1	_

1648 Morphology Study of a Hybrid Structure Based on Porous Silicon and Polypyrrole. **2006**, 939, 1

Size-dependent x-ray photoelectron spectroscopy and complex magnetic properties of CoMn2O4spinel nanocrystals. 2006 , 17, 1384-1390	47
1646 Systems for human-powered mobile computing. 2006 ,	21
Solution-Processed Hybrid Polymer-Quantum Dot Nanocomposite for Infrared Photodetection and Photorefractivity. 2006 , 939, 1	
1644 Amorphous-Silicon / Polymer Solar Cells and Key Design Rules for Hybrid Solar Cells. 2006 ,	
1643 Nanostructured Photovoltaics Materials Fabrication and Characterization. 2006 , 567-594	1
The Application of Photosynthetic Materials and Architectures to Solar Cells. 2006 , 335-359	1
$_{1641}$ Investigation of new polymers with regard to the application in hybrid solar cells. 2006 ,	
1640 Synthesis and characterization of colloidal ternary ZnCdSe semiconductor nanorods. 2006 , 125, 164711	42
1639 Synthesis and characterization of one-dimensional CdSe nanostructures. 2006 , 88, 193115	30
Mobility spatial distribution function: Comparative method for conjugated polymers/molecules. 2006 , 89, 252117	11
1637 Light-harvesting antennae for polymer solar cells. 2006 , 89, 213505	5
Absorption cross sections and Auger recombination lifetimes in inverted core-shell nanocrystals: Implications for lasing performance. 2006 , 99, 034309	85
Effect of conducting polymer molecular weight on nanocrystal growth size for photovoltaic applications. 2006 ,	1
Efficient harvest of near infrared light in nanocrystal-polymer hybrid photovoltaic composites. 2006 ,	
1633 Quantum dots confined in nanoporous alumina membranes. 2006 , 89, 133110	42
Solution-processed pentacene quantum-dot polymeric nanocomposite for infrared photodetection. 2006 , 89, 051109	17
$_{1631}$ Gallium nitride-organic semiconductor heterojunctions for optoelectronic devices. 2006 ,	

1630	Role of the shell thickness in stimulated emission and photoinduced absorption in CdSe core/shell nanorods. 2006 , 73,	38
1629	Precursor transfer synthesis and magnetic properties of nickel nanorods. 2006,	
1628	Approaches for biological and biomimetic energy conversion. 2006 , 103, 5251-5	106
1627	Synthesis and Characterization of Silicon Nanorod Arrays for Solar Cell Applications. 2006,	5
1626	A controllable synthesis of multi-armed CdTe nanorods. 2006 , 17, 1146-9	15
1625	Synthesis and electrochemical properties of InP nanocrystals. 2006 , 21, 543-546	9
1624	Photoluminescence and vibrational properties of nanostructured ZnSe templates. 2007, 22, 1115-1121	12
1623	Pore Etching in III-V and II-VI Semiconductor Compounds in Neutral Electrolyte. 2007 , 10, D127	34
1622	Gallium Nitride LEDs Incorporating Organic Semiconductor Heterojunctions. 2007,	
1621	Optical Biosensing Based on Metal and Semiconductor Colloidal Nanocrystals. 2007,	1
1620	Doping and Characterisation of Nanocrystalline Materials. 2007 , 128, 61-72	
1619	Controllable size reduction of CdSe nanowires through the intermediate formation of Se-coated CdSe nanowires using acid and thermal treatment. 2007 , 18, 415607	9
1618	Zero- versus One-Dimensional Water-Soluble CdTe NanocrystalsSynthesis and Photophysical Characterization. 2007 , 111, 9694-9703	18
1617	Effect of TiO 2 Nanotubes on Polymer-Fullerene Bulk Heterojunction Solar Cells. 2007, 24, 2654-2656	7
1616	Effect of Ultraviolet Light on Hybrid Zinc Oxide Polymer Bulk Heterojunction Solar Cells. 2007 , 24, 2070-2073	4
1615	In situpreparation of free-standing nanoporous alumina template for polybithiophene nanotube arrays with a concourse base. 2007 , 18, 095602	7
1614	Exciton escape in CdSe core-shell quantum dots: Implications for the development of nanocrystal solar cells. 2007 , 76,	12
1613	Photoconducting Polymeric Compositions Based on Acrylonitrile Copolymers Doped with Organic Dyes. 2007 , 467, 275-283	2

1612	Role of defect states on Auger processes in resonantly pumped CdSe nanorods. 2007, 91, 093106	8
1611	Synthesis and structure of alkyl-substituted fused thiophenes containing up to seven rings. 2007 , 72, 442-51	126
1610	The Effects of Different Side Groups on the Properties of Polythiophene. 2007 , 44, 989-993	11
1609	Linear optical properties of the semiconductor quantum shell. 2007, 76,	15
1608	Strong excitonic confinement effect in ZnS and ZnS:Mn nanorods embedded in polycarbonate membrane pores. 2007 , 101, 114315	17
1607	Size dependence of tetrahedral bond lengths in CdSe nanocrystals. 2007 , 90, 161911	17
1606	Polymeric nanocomposite infrared photovoltaics enhanced by pentacene. 2007 , 90, 252112	18
1605	Fabrication and magnetic characteristics of hybrid double walled nanotube of ferromagnetic nickel encapsulated conducting polypyrrole. 2007 , 90, 093122	22
1604	Confocal Raman spectroscopy of single poly(3-methylthiophene) nanotubes. 2007 , 101, 053514	19
1603	Confocal microscope photoluminescence and electrical characteristics of single poly(3-hexylthiophene) nanowire strand. 2007 , 91, 263102	18
1602	Optical transitions in polarized CdSe, CdSeIInSe, and CdSeIIdSIInS quantum dots dispersed in various polar solvents. 2007 , 91, 241908	29
1601	Investigating Charge Carrier Mobilities in Nanocrystal-Polymer Hybrid Photovoltaic Devices. 2007,	
1600	Photovoltaic and photoelectrochemical conversion of solar energy. 2007 , 365, 993-1005	162
1599	Effect of the shell on the blinking statistics of core-shell quantum dots: A single-particle fluorescence study. 2007 , 75,	70
1598	Investigating charge carrier mobilities in nanocrystal-polymer hybrid photovoltaic devices. 2007,	
1597	Mechanisms of Operation and Degradation in Solution-Processable Organic Photovoltaics. 2007,	2
1596	A facile route to semiconductor nanocrystal-semiconducting polymer complex using amine-functionalized rod-coil triblock copolymer as multidentate ligand. 2007 , 18, 035704	28
1595	Photoactive Silicon-Based Nanostructure by Self-Organized Electrochemical Processing. 2007 , 154, H794	24

1594	Electrodeposition of CdS Nanostructures for Solar Cells Using Nano Imprint Templates. 2007 , 124-126, 967-970	2
1593	Evidence of Sequential Carrier Escape in III-V p-i-n Multi-Quantum Well Solar Cells. 2007 , 1031, 1	
1592	Solventless Synthesis of Bi2S3 Nanowires and their Application to Solar Cells. 2007 , 26-28, 601-607	3
1591	Effect of Ligand Exchange on the Stability and Optical Properties of CdSe Quantum Dots. 2007 , 1056, 1	
1590	DISPERSIONS AND FREILICH ELECTRONEHONON INTERACTION HAMILTONIAN OF PROPAGATING OPTICAL PHONON MODES IN QUASI-ONE-DIMENSIONAL WURTZITEGaN-BASED QUANTUM WELL WIRES. 2007 , 14, 903-910	3
1589	Optical Performance of a Hybrid Nano-Polymer Solar Cell. 2007 , 15	1
1588	Analysis of Optical Absorption in Silicon Nanowire Solar Cells. 2007 , 1285	2
1587	Size Dependent Photomodulated Transmission Spectroscopy of CdTe Tetrapod-shaped Nanocrystals. 2007 ,	
1586	Superlattices of organic/inorganic semiconductor nanostructures from liquid-crystal templates. 2007 , 75,	5
1585	Creation of Fullerene-Based Artificial Photosynthetic Systems. 2007 , 80, 621-636	144
1585 1584	Creation of Fullerene-Based Artificial Photosynthetic Systems. 2007, 80, 621-636 Analysis of surface plasmon polariton mediated energy transfer in organic photovoltaic devices. 2007,	144
	Analysis of surface plasmon polariton mediated energy transfer in organic photovoltaic devices.	
1584	Analysis of surface plasmon polariton mediated energy transfer in organic photovoltaic devices. 2007, Blinking suppression and intensity recurrences in single CdSe-oligo(phenylene vinylene)	1
1584 1583	Analysis of surface plasmon polariton mediated energy transfer in organic photovoltaic devices. 2007, Blinking suppression and intensity recurrences in single CdSe-oligo(phenylene vinylene) nanostructures: experiment and kinetic model. 2007, 18, 424027 A comparative study on liquid-state photoelectrochemical cells based on poly(3-hexylthiophene)	35
1584 1583 1582	Analysis of surface plasmon polariton mediated energy transfer in organic photovoltaic devices. 2007, Blinking suppression and intensity recurrences in single CdSe-oligo(phenylene vinylene) nanostructures: experiment and kinetic model. 2007, 18, 424027 A comparative study on liquid-state photoelectrochemical cells based on poly(3-hexylthiophene) and a composite film of poly(3-hexylthiophene) and nanocrystalline titanium dioxide. 2007, 157, 75-79	1 35 3
1584 1583 1582	Analysis of surface plasmon polariton mediated energy transfer in organic photovoltaic devices. 2007, Blinking suppression and intensity recurrences in single CdSe-oligo(phenylene vinylene) nanostructures: experiment and kinetic model. 2007, 18, 424027 A comparative study on liquid-state photoelectrochemical cells based on poly(3-hexylthiophene) and a composite film of poly(3-hexylthiophene) and nanocrystalline titanium dioxide. 2007, 157, 75-79 A facile synthesis of polythiophene nanowires. 2007, 157, 1008-1012 Synthesis of nanocrystal-polymer transparent hybrids via polyurethane matrix grafted onto	1 35 3 54
1584 1583 1582 1581 1580	Analysis of surface plasmon polariton mediated energy transfer in organic photovoltaic devices. 2007, Blinking suppression and intensity recurrences in single CdSe-oligo(phenylene vinylene) nanostructures: experiment and kinetic model. 2007, 18, 424027 A comparative study on liquid-state photoelectrochemical cells based on poly(3-hexylthiophene) and a composite film of poly(3-hexylthiophene) and nanocrystalline titanium dioxide. 2007, 157, 75-79 A facile synthesis of polythiophene nanowires. 2007, 157, 1008-1012 Synthesis of nanocrystal-polymer transparent hybrids via polyurethane matrix grafted onto functionalized CdS nanocrystals. 2007, 23, 850-4	1 35 3 54 54

1576	Application of microwave superheating for the synthesis of TiO2 rods. 2007 , 23, 11211-6	55
1575	Polymer Solar Cells. 2007 , 1-86	25
1574	Mechanistic study of precursor evolution in colloidal group II-VI semiconductor nanocrystal synthesis. 2007 , 129, 305-12	346
1573	Organic solar cells. Supramolecular composites of porphyrins and fullerenes organized by polypeptide structures as light harvesters. 2007 , 17, 4160	150
1572	Sol-gel methods for the assembly of metal chalcogenide quantum dots. 2007 , 40, 801-9	172
1571	Synthesis, characterization, and biological applications of multifluorescent silica nanoparticles. 2007 , 79, 6507-14	115
1570	Highly luminescent quantum-dot monoliths. 2007 , 129, 1840-1	114
1569	Photoinduced Shape Evolution: From Triangular to Hexagonal Silver Nanoplates. 2007 , 111, 18055-18059	125
1568	Phthalocyanines: old dyes, new materials. Putting color in nanotechnology. 2007 , 2000-15	665
1567	Excitation wavelength dependence of fluorescence intermittency in CdSe/ZnS core/shell quantum dots. 2007 , 7, 3869-74	79
1566	APhen-functionalized nanoparticlespolymer fluorescent nanocomposites via ligand exchange and in situ bulk polymerization. 2007 , 17, 4591	28
1565	Facile route to Zn-based II-VI semiconductor spheres, hollow spheres, and core/shell nanocrystals and their optical properties. 2007 , 23, 10286-93	95
1564	High-quality ZnS shells for CdSe nanoparticles: rapid microwave synthesis. 2007 , 23, 7751-9	56
1563	Optical Properties of Composites of PMMA and Surface-Modified Zincite Nanoparticles. 2007 , 40, 1089-1100	162
1562	Discrete size series of CdSe quantum dots: a combined computational and experimental investigation. 2007 , 14, 167-174	11
1561	Catalyst-assisted solution-liquid-solid synthesis of CdS/CdSe nanorod heterostructures. 2007 , 129, 133-8	162
1560	Polymer-Nanoparticle Composites: Preparative Methods and Electronically Active Materials. 2007 , 47, 155-163	46
1559	ZnSe based colloidal nanocrystals: synthesis, shape control, core/shell, alloy and doped systems. 2007 , 31, 1843	112

1558	Decorating carbon nanotubes with metal or semiconductor nanoparticles. 2007 , 17, 2679	574
1557	Synthesis of Type II CdTetIdSe Nanocrystal Heterostructured Multiple-Branched Rods and Their Photovoltaic Applications. 2007 , 111, 6538-6543	149
1556	Nanostructured metal oxide/conjugated polymer hybrid solar cells by low temperature solution processes. 2007 , 17, 4571	101
1555	Ultra-Lightweight Hybrid Thin-Film Solar Cells: A Survey of Enabling Technologies for Space Power Applications. 2007 ,	1
1554	Cadmium(II) complexes of N,N-diethyl-N?-benzoylthio(seleno)urea as single-source precursors for the preparation of CdS and CdSe nanoparticles. 2007 , 31, 1647	74
1553	Direct measurements of intersystem crossing rates and triplet decays of luminescent conjugated oligomers in solutions. 2007 , 111, 9424-30	11
1552	Synthesis and Electrical Transport Properties of Single-Crystal Antimony Sulfide Nanowires. 2007 , 111, 17131-17135	37
1551	Poly(3,4-ethylenedioxythiophene)-semiconductor nanoparticle composite thin films tethered to indium tin oxide substrates via electropolymerization. 2007 , 129, 11310-1	43
1550	Alcoholysis route to monodisperse CoO nanotetrapods with tunable size. 2007 , 18, 195605	17
1549	Synthesis and characterization of positively capped CdTe quantum wires that exhibit strong luminescence in aqueous media. 2007 , 565-7	28
1548	An optically controlled phase shifter employing the organic semiconductor poly(3-hexylthiophene). 2007 , 91, 202101	5
1547	Y2O3:Tb Nanocrystals Self-Assembly into Nanorods by Oriented Attachment Mechanism. 2007 , 111, 7893-7897	54
1546	Growing TiO2-Based Pillars by Chemisorbed Nanotitania Followed by Annealing. 2007, 111, 14574-14578	7
1545	Seedless, Surfactantless, High-Yield Synthesis of Branched Gold Nanocrystals in HEPES Buffer Solution. 2007 , 19, 2823-2830	347
1544	Fabrication of Strongly Fluorescent Quantum Dot P olymer Composite in Aqueous Solution. 2007 , 19, 3773-3779	126
1543	A Route to Stable Nanostructures in Conjugated Polymers. 2007 , 40, 7758-7762	21
1542	Flexible conjugated polymer photovoltaic cells with controlled heterojunctions fabricated using nanoimprint lithography. 2007 , 90, 123113	157
1541	Highly Efficient Resonance Energy Transfer in Ultrathin Organic-Inorganic Semiconductor Hybrid Films. 2007 ,	

1540	Temperature dependence of exciton transfer in hybrid quantum well/nanocrystal heterostructures. 2007 , 91, 092126		29
1539	Improving efficiency of organic photovoltaic cells with pentacene-doped CuPc layer. 2007 , 91, 191109		59
1538	Electrophoretic deposition of donor acceptor nanostructures on electrodes for molecular photovoltaics. 2007 , 17, 31-41		70
1537	Hybrid solar cells with prescribed nanoscale morphologies based on hyperbranched semiconductor nanocrystals. 2007 , 7, 409-14		430
1536	Transparent PMMA/ZnO nanocomposite films based on colloidal ZnO quantum dots. 2007 , 18, 215606		87
1535	Thermoelectricity in molecular junctions. <i>Science</i> , 2007 , 315, 1568-71	33.3	726
1534	Conjugated polymers for photocatalysis. 2007 , 111, 7994-8		84
1533	Synthesis and Characterization of CdSe Nanorods Functionalized with Regioregular Poly(3-hexylthiophene). 2007 , 19, 3712-3716		104
1532	A PbS nanocrystal-C60 photovoltaic device for infrared light harvesting. 2007 , 91, 133506		45
1531	Reducing charge recombination losses in solid state dye sensitized solar cells: the use of donor-acceptor sensitizer dyes. 2007 , 1725-7		79
1530	Hybridization of thiol-functionalized poly(phenylacetylene) with cadmium sulfide nanorods: improved miscibility and enhanced photoconductivity. 2007 , 1322-4		22
1529	Growth Of ZnO Nanorods by Hydrotherothermal Method Under Different Temperatures. 2007,		4
1528	Biological systems as nanoreactors: anomalous small-angle scattering study of the CdS nanoparticle formation in multilamellar vesicles. 2007 , 111, 1911-5		18
1527	Vibrational Sum Frequency Generation Spectroscopy of Dodecanethiol on Metal Nanoparticles 2007, 111, 8925-8933		70
1526	Development and Optical Properties of Cadmium Sulfide and Cadmium Selenide Nanoparticles in Amphiphilic Block Copolymer Micellar-like Aggregates. 2007 , 111, 15201-15209		20
1525	Ambipolar diphenylamino end-capped oligofluorenylthiophenes as excellent electron-transporting emitters. 2007 , 9, 3659-62		28
1524	Donor and Acceptor Behavior in a Polyfluorene for Photovoltaics. 2007 , 111, 5244-5249		37
1523	Polymeric Photovoltaic Devices Based on Tricomponent System Composed of a Blend of Donor and PCBM Acceptor Material. 2007 , 471, 137-145		4

(2007-2007)

1522	Dendritic Effects on Structure and Photophysical and Photoelectrochemical Properties of Fullerene Dendrimers and Their Nanoclusters. 2007 , 111, 2777-2786	48
1521	Enhanced Electrical Conductivity of Highly Crystalline Polythiophene/Insulating-Polymer Composite. 2007 , 40, 6579-6584	82
1520	Insights on interfacial charge transfer across P3HT/fullerene photovoltaic heterojunction from Ab initio calculations. 2007 , 7, 1967-72	130
1519	The solventless syntheses of unique PbS nanowires of X-shaped cross sections and the cooperative effects of ethylenediamine and a second salt. 2007 , 46, 8038-43	30
1518	Optical Excitations in Cadmium Sulfide Nanoparticles. 2007 , 111, 10761-10770	55
1517	Poly(allylamine)-encapsulated water-soluble CdSe nanocrystals. 2007, 111, 81-7	15
1516	Nanocrystals to Nanorods: A Precursor Approach for the Synthesis of Magnesium Hydroxide Nanorods from Magnesium Oxychloride Nanorods Starting from Nanocrystalline Magnesium Oxide. 2007 , 19, 5395-5403	30
1515	Synchronous photoluminescence intermittency (blinking) along whole semiconductor quantum wires. 2007 , 7, 3290-5	67
1514	Controlling surface reactions of CdS nanocrystals: photoluminescence activation, photoetching and photostability under light irradiation. 2007 , 18, 465702	52
1513	Integrated nanogenerators in biofluid. 2007 , 7, 2475-9	138
1512	Synthesis, Hole Mobility, and Photovoltaic Properties of Cross-Linked Polythiophenes with Vinylene Terthiophene Vinylene as Conjugated Bridge. 2007 , 40, 1831-1837	76
1511	High aspect ratio silicon wire array photoelectrochemical cells. 2007 , 129, 12346-7	226
1510	Functional One-Dimensional Nanomaterials: Applications in Nanoscale Biosensors. 2007 , 40, 2067-2096	76
1509	Exciton Energy Transfer in Self-Assembled Quantum Dots on Bioengineered Bacterial Flagella Nanotubes. 2007 , 111, 5276-5280	22
1508	Supramolecularly Assembled Hybrid Materials via Molecular Recognition between Diaminopyrimidine-Functionalized Poly(hexylthiophene) and Thymine-Capped CdSe Nanocrystals. 2007 , 111, 14681-14688	38
1507	Helically Annelated and Cross-Conjugated #Oligothiophenes: A Fourier Transform Raman Spectroscopic and Quantum Chemical Density Functional Theory Study. 2007 , 111, 4854-4860	13
1506	Synthesis of Gold Nanotadpoles by a Temperature-Reducing Seed Approach and the Dielectrophoretic Manipulation. 2007 , 111, 16154-16160	26
1505	Branched NaYF(4) nanocrystals with luminescent properties. 2007 , 46, 6050-5	55

1504	Fluorescence lifetimes and correlated photon statistics from single CdSe/oligo(phenylene vinylene) composite nanostructures. 2007 , 7, 2769-73	24
1503	Quantitative Study of the Effects of Surface Ligand Concentration on CdSe Nanocrystal Photoluminescence. 2007 , 111, 6220-6227	226
1502	Bias-induced photoluminescence quenching of single colloidal quantum dots embedded in organic semiconductors. 2007 , 7, 3781-6	55
1501	Energetics of Photoinduced Electron-Transfer Reactions Decided by Quantum Confinement. 2007 , 111, 13777-13785	63
1500	Self-assembly of vertically aligned nanorod supercrystals using highly oriented pyrolytic graphite. 2007 , 7, 2480-5	107
1499	Solution-liquid-solid (SLS) growth of ZnSe-ZnTe quantum wires having axial heterojunctions. 2007 , 7, 1308-13	119
1498	Determination of the rod-wire transition length in colloidal indium phosphide quantum rods. 2007 , 129, 14381-7	53
1497	Instabilities in nanoporous media. 2007 , 7, 183-7	119
1496	CdSe Nanorods Functionalized with Thiol-Anchored Oligothiophenes. 2007 , 111, 17184-17192	36
1495	Stability and electronic structure of CdSe nanorods from first principles. 2007 , 76,	16
1494	The Effect of Atmosphere and ZnO Morphology on the Performance of Hybrid Poly(3-hexylthiophene)/ZnO Nanofiber Photovoltaic Devices. 2007 , 111, 16670-16678	199
1493	Synthesis of hydrated CeO2 nanowires and nanoneedles. 2007 , 23, 237-241	14
1492	Surface modifications of ZnO quantum dots for bio-imaging. 2007 , 18, 215604	111
1491	Isoregic Thienylene-Phenylene Polymers: The Effects of Structural Variation and Application to Photovoltaic Devices. 2007 , 44, 665-674	4
1490	Synthesis of a ⊞e2O3nanocrystal in its different morphological attributes: growth mechanism, optical and magnetic properties. 2007 , 18, 275608	190
1489	Single semiconductor nanocrystals: Physics and applicationsa). 2007 , 101, 081727	17
1488	A facile route to synthesize chalcopyrite CuInSe2nanocrystals in non-coordinating solvent. 2007 , 18, 025602	105
1487	Meeting the Clean Energy Demand: Nanostructure Architectures for Solar Energy Conversion. 2007 , 111, 2834-2860	1928

1486	PbSe nanocrystal/conducting polymer solar cells with an infrared response to 2 micron. 2007 , 22, 2204-227	10	101
1485	Self-assembly of nanoparticles at interfaces. <i>Soft Matter</i> , 2007 , 3, 1231-1248	6	466
1484	Nanowires. 2007 , 113-160		9
1483	Electrically driven light emission from single colloidal quantum dots at room temperature. 2007 , 90, 023110		28
1482	Controllable Fabrication and Electrical Performance of Single Crystalline Cu2O Nanowires with High Aspect Ratios. 2007 , 7, 3723-3728		210
1481	ZnOIIiO2 CoreBhell Nanorod/P3HT Solar Cells. 2007 , 111, 18451-18456		408
1480	A fulleropyrrolidine end-capped platinum-acetylide triad: the mechanism of photoinduced charge transfer in organometallic photovoltaic cells. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 2724-34	6	67
1479	Silicon nanowire solar cells. 2007 , 91, 233117		799
1478	Near infrared light-emitting diodes based on composites of near infrared dye, CdSe/CdS quantum dots and polymer. 2007 , 22, 1021-1024		7
1477	Structure design of nano-TiO2 electrode in dye-sensitized solar cells. 2007 ,		
1477 1476	Structure design of nano-TiO2 electrode in dye-sensitized solar cells. 2007 , Manganese Oxide Nanorod with 2 [4 Tunnel Structure: Synthesis and Electrochemical Properties. 2007 , 7, 1375-1377		44
17.7	Manganese Oxide Nanorod with 2 [4 Tunnel Structure: Synthesis and Electrochemical Properties.		44
1476	Manganese Oxide Nanorod with 2 A Tunnel Structure: Synthesis and Electrochemical Properties. 2007, 7, 1375-1377 Hybrid Polymer Solar Cells from Highly Reactive Diethylzinc: MDMOPPV versus P3HT. 2007, 19, 5856-5861 Organic-inorganic nanocomposites via directly grafting conjugated polymers onto quantum dots.		
1476 1475	Manganese Oxide Nanorod with 2 I Tunnel Structure: Synthesis and Electrochemical Properties. 2007, 7, 1375-1377 Hybrid Polymer Solar Cells from Highly Reactive Diethylzinc: MDMOPPV versus P3HT. 2007, 19, 5856-5861 Organic-inorganic nanocomposites via directly grafting conjugated polymers onto quantum dots.		81
1476 1475 1474	Manganese Oxide Nanorod with 2 [4 Tunnel Structure: Synthesis and Electrochemical Properties. 2007, 7, 1375-1377 Hybrid Polymer Solar Cells from Highly Reactive Diethylzinc: MDMOBPV versus P3HT. 2007, 19, 5856-5861 Organic-inorganic nanocomposites via directly grafting conjugated polymers onto quantum dots. 2007, 129, 12828-33 Controlling the Morphology of Zinc Oxide Nanorods Crystallized from Aqueous Solutions: The		207
1476 1475 1474 1473	Manganese Oxide Nanorod with 2 II Tunnel Structure: Synthesis and Electrochemical Properties. 2007, 7, 1375-1377 Hybrid Polymer Solar Cells from Highly Reactive Diethylzinc: MDMOPPV versus P3HT. 2007, 19, 5856-5861 Organic-inorganic nanocomposites via directly grafting conjugated polymers onto quantum dots. 2007, 129, 12828-33 Controlling the Morphology of Zinc Oxide Nanorods Crystallized from Aqueous Solutions: The Effect of Crystal Growth Modifiers on Aspect Ratio. 2007, 19, 4016-4022 Temperature effects on the spectral properties of colloidal CdSe nanodots, nanorods, and		207
1476 1475 1474 1473	Manganese Oxide Nanorod with 2 I Tunnel Structure: Synthesis and Electrochemical Properties. 2007, 7, 1375-1377 Hybrid Polymer Solar Cells from Highly Reactive Diethylzinc: MDMOPPV versus P3HT. 2007, 19, 5856-5861 Organic-inorganic nanocomposites via directly grafting conjugated polymers onto quantum dots. 2007, 129, 12828-33 Controlling the Morphology of Zinc Oxide Nanorods Crystallized from Aqueous Solutions: The Effect of Crystal Growth Modifiers on Aspect Ratio. 2007, 19, 4016-4022 Temperature effects on the spectral properties of colloidal CdSe nanodots, nanorods, and tetrapods. 2007, 90, 093104 High efficiency double heterojunction polymer photovoltaic cells using highly ordered TiO2		81 207 109 118

1468	Synthesis of monodisperse spherical nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4630-60	16.4	1613
1467	Self-assembled hybrid oligo(p-phenylenevinylene)-gold nanoparticle tapes. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1825-8	16.4	114
1466	Evaporation-induced self-assembly of nanoparticles from a sphere-on-flat geometry. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1860-3	16.4	203
1465	Electrospinning: a fascinating method for the preparation of ultrathin fibers. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5670-703	16.4	3325
1464	Synthese monodisperser spharischer Nanokristalle. <i>Angewandte Chemie</i> , 2007 , 119, 4714-4745	3.6	134
1463	Self-Assembled Hybrid Oligo(p-phenylenevinylene) © old Nanoparticle Tapes. <i>Angewandte Chemie</i> , 2007 , 119, 1857-1860	3.6	41
1462	Evaporation-Induced Self-Assembly of Nanoparticles from a Sphere-on-Flat Geometry. <i>Angewandte Chemie</i> , 2007 , 119, 1892-1895	3.6	55
1461	Elektrospinnen: eine faszinierende Methode zur Prparation ultradfiner Fasern. <i>Angewandte Chemie</i> , 2007 , 119, 5770-5805	3.6	76
1460	Photoresponse Properties of CdSe Single-Nanoribbon Photodetectors. 2007 , 17, 1795-1800		236
1459	Soluble Phenanthrenyl-Imidazole-Presenting Regioregular Poly(3-octylthiophene) Copolymers Having Tunable Bandgaps for Solar Cell Applications. 2007 , 17, 3326-3331		60
1458	Energy Transfer and Polarized Emission in Cadmium Selenide Nanocrystal Solids with Mixed Dimensionality. 2007 , 17, 3829-3835		25
1457	Synthesis and Self-Assembly of Luminescent Ln3+-Doped LaVO4 Uniform Nanocrystals. 2007 , 19, 1118-	-1122	160
1456	Efficient Photodetection at IR Wavelengths by Incorporation of PbSellarbon-Nanotube Conjugates in a Polymeric Nanocomposite. 2007 , 19, 232-236		91
1455	pH-Responsive Microrods Produced by Electric-Field-Induced Aggregation of Colloidal Particles. 2007 , 19, 1523-1527		18
1454	Improved Performance from Multilayer Quantum Dot Light-Emitting Diodes via Thermal Annealing of the Quantum Dot Layer. 2007 , 19, 3371-3376		115
1453	Preparation of Highly Luminescent Nanocrystals and Their Application to Light-Emitting Diodes. 2007 , 19, 1927-1932		197
1452	Advances in Liquid-Electrolyte and Solid-State Dye-Sensitized Solar Cells. 2007 , 19, 3187-3200		527
1451	Achieving Perpendicular Alignment of Rigid Polythiophene Backbones to the Substrate by Using Solvent-Vapor Treatment. 2007 , 19, 3594-3598		118

1450	Inkjet-Printed Nanocrystal Photodetectors Operating up to 3 th Wavelengths. 2007 , 19, 3574-3578	163
1449	Down- and Up-Conversion Luminescent Nanorods. 2007 , 19, 3304-3307	139
1448	Fabrication of Oriented and Periodic Hybrid Nanostructures of Regioregular Poly(3-hexylthiophene) and CdSe Nanocrystals by Directional Epitaxial Solidification. 2007 , 19, 3819-3823	34
1447	Efficient Solar Cells Using All-Organic Nanocrystalline Networks. 2007 , 19, 4166-4171	100
1446	New Photocurable Acrylic/Silsesquioxane Hybrid Optical Materials: Synthesis, Properties, and Patterning. 2007 , 292, 666-673	11
1445	The Influence of Interchain Branches on Solid State Packing, Hole Mobility and Photovoltaic Properties of Poly(3-hexylthiophene) (P3HT). 2007 , 28, 1781-1785	56
1444	Silole-Containing Polymers: Chemistry and Optoelectronic Properties. 2007 , 28, 1714-1742	289
1443	Hybrid solar cells using PbS nanoparticles. 2007 , 91, 420-423	171
1442	Vertically aligned ZnO nanowire arrays in Rose Bengal-based dye-sensitized solar cells. 2007 , 91, 769-773	159
1441	Optimization of process parameters for high-efficiency polymer photovoltaic devices based on P3HT:PCBM system. 2007 , 91, 1187-1193	80
1440	P3HT/TiO2 bulk-heterojunction solar cell sensitized by a perylene derivative. 2007 , 91, 1782-1787	61
1439	Synthesis, Surface Studies, Composition and Structural Characterization of CdSe, Core/Shell, and Biologically Active Nanocrystals. 2007 , 62, 111-157	187
1438	Fabrication of TiO2 nanotube film by well-aligned ZnO nanorod array film and solgel process. 2007 , 515, 2897-2902	50
1437	Synthesis, characterization and photovoltaic properties of thiophene copolymers containing conjugated side-chain. 2007 , 43, 855-861	16
1436	A new nonhydrolytic single-precursor approach to surfactant-capped nanocrystals of transition metal sulfides. 2007 , 145, 17-22	22
1435	Structural studies of thin films of semiconducting nanoparticles in polymer matrices. 2007 , 27, 1372-1376	16
1434	Tunable photoluminescence of polymer doped with PbSe quantum dots. 2007, 27, 1078-1081	11
1433	Catalytic and seeded shape-selective synthesis of IIIVI semiconductor nanowires. 2007, 37, 138-141	7

1432	Synthesis routes for the growth of complex nanostructures. 2007 , 37, 128-133		12
1431	Proposed strategy to sort semiconducting nanotubes by band-gap. 2007 , 36, 73-78		1
1430	One dimensional nanostructured materials. 2007 , 52, 699-913		495
1429	Thin film semiconductor nanomaterials and nanostructures prepared by physical vapour deposition: An atomic force microscopy study. 2007 , 68, 675-680		6
1428	Effects of the incorporation of carbon powder into nanostructured TiO2 film for dye-sensitized solar cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 186, 234-241	4.7	38
1427	Hybrid solar cells with ordered TiO2 nanostructures and MEH-PPV. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 188, 364-370	4.7	54
1426	Dye-sensitized solar cells based on TiO2 nanotubes and a solid-state electrolyte. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 189, 153-160	4.7	82
1425	Preparation of water-soluble CdTe/CdS core/shell quantum dots with enhanced photostability. 2007 , 127, 721-726		101
1424	Control of ZnO nanorod array alignment synthesized via seeded solution growth. 2007, 304, 80-85		77
1423	Surfactant-assisted solvothermal synthesis of Bi2S3 nanorods. 2007 , 306, 159-165		23
1422	Polymer-based solar cells. 2007 , 10, 28-33		841
1421	Vesicles as reactors of nanoparticles: an anomalous small-angle X-ray scattering study of the domains rich in copper ions. 2007 , 40, s259-s263		9
1420	Nitride-organic semiconductor hybrid heterostructures for optoelectronic devices. 2007 , 4, 2411-2414		6
1419	Structure of small II-VI semiconductor nanoparticles: A new approach based on powder diffraction. 2007 , 4, 3234-3243		15
1418	Evolutionary shape control during colloidal quantum-dot growth. 2007 , 3, 481-7		59
1417	Nonhydrolytic alcoholysis route to morphology-controlled ZnO nanocrystals. 2007 , 3, 1194-9		47
1416	Environmentally friendly methodologies of nanostructure synthesis. 2007 , 3, 1122-39		276
1415	Drying droplets: a window into the behavior of nanorods at interfaces. 2007 , 3, 1214-7		86

1414	Nanorod heterostructures showing photoinduced charge separation. 2007 , 3, 1633-9	180
1413	Synthesis, hole mobility, and photovoltaic properties of two alternating poly[3-(hex-1-enyl)thiophene-co-thiophene]s. 2007 , 45, 629-638	32
1412	Synthesis and characterization of conjugated triblock copolymers. 2007 , 45, 2410-2424	26
1411	Alternating copolymers of electron-rich arylamine and electron-deficient 2,1,3-benzothiadiazole: Synthesis, characterization and photovoltaic properties. 2007 , 45, 3861-3871	61
1410	Characterization of Poly(3-Methylthiophene)-like Films Produced by Plasma Polymerization. 2007 , 4, S801-S805	14
1409	Self-assembly of metal-polymer analogues of amphiphilic triblock copolymers. 2007 , 6, 609-14	693
1408	Highly efficient resonant coupling of optical excitations in hybrid organic/inorganic semiconductor nanostructures. 2007 , 2, 555-9	148
1407	Coaxial silicon nanowires as solar cells and nanoelectronic power sources. 2007 , 449, 885-9	2531
1406	Synthesis of Bundle- and Flake-Like CeO2 Powders Via a Precursor-Pyrolysis Approach. 2007 , 90, 1232-1236	2
1405	A facile solution route to CuS hexagonal nanoplatelets. 2007 , 102, 201-206	32
1404	Hydrothermal synthesis of ZnO nanowires and nanobelts on a large scale. 2007, 106, 58-62	124
1403	Formation of rod-shaped BaFe12O19 nanoparticles with well magnetic properties. 2007, 61, 1522-1525	32
1402	Investigation on photoconductive properties of MEH-PPV/CdSe-nanocrystal nanocomposites. 2007 , 61, 2178-2181	36
1401	Large-scale hydrothermal synthesis of WO3 nanowires in the presence of K2SO4. 2007 , 61, 3904-3908	114
1400	Synthesis of CdS nanorods by reacting CdCl2 nanorods with H2S at room temperature. 2007 , 61, 4944-4946	9
1399	Synthesis of flower-like CuO nanostructures via a simple hydrolysis route. 2007 , 61, 5236-5238	58
1398	Confinement of polar optical phonons in quasi-one-dimensional Wurtzite GaN-based quantum well wires: propagating and half-space phonon modes. 2007 , 5,	5
1397	Enhancement of Photovoltaic Characteristics Using a Suitable Solvent in Hybrid Polymer/Multiarmed CdS Nanorods Solar Cells. 2007 , 111, 9538-9542	165

1396	General synthesis of colloidal rare earth orthovanadate nanocrystals. 2007, 17, 1797	127
1395	Nanocrystalline CdS-water-soluble conjugated-polymers: High performance photoelectrochemical cells. 2007 , 90, 263503	38
1394	Photosensitization of ZnO nanowires with CdSe quantum dots for photovoltaic devices. 2007 , 7, 1793-8	880
1393	Silicon nanowire array photelectrochemical cells. 2007 , 129, 12344-5	204
1392	Environment-Induced Structure Change of As-Prepared Aqueous CdTe Nanocrystals. 2007 , 111, 9678-9683	15
1391	Oligothiophene- and Oligopyrrole-Mediated Aggregation of Gold Nanoparticles. 2007 , 111, 5886-5892	18
1390	Block copolymer assembly via kinetic control. <i>Science</i> , 2007 , 317, 647-50	909
1389	Hybrid polymerthetal oxide thin films for photovoltaic applications. 2007 , 17, 3141	304
1388	Shape dependence of band-edge exciton fine structure in CdSe nanocrystals. 2007, 7, 3274-80	41
1387	Ligand Control of Growth, Morphology, and Capping Structure of Colloidal CdSe Nanorods. 2007 , 19, 2573-2580	147
1386	Conjugated polymer-based organic solar cells. 2007 , 107, 1324-38	5523
1385	Zinc, Cadmium and Mercury Dithiocarboxylates: Synthesis, Characterization, Structure and Their Transformation to Metal Sulfide Nanoparticles. 2007 , 2007, 1566-1575	23
1384	Enzymatic production of biosilica glass using enzymes from sponges: basic aspects and application in nanobiotechnology (material sciences and medicine). 2007 , 94, 339-59	75
1383	The evolution of morphology of ordered porous TiO2 films fabricated from sol-gel method assisted ZnO nanorod template. 2007 , 44, 235-239	8
1382	Selective Synthesis of Wurtzite CdSe Nanorods and Zinc Blend CdSe Nanocrystals through a Convenient Solvothermal Route. 2007 , 9, 745-752	23
1381	Morphological control in solvothermal synthesis of titanium oxide. 2007 , 42, 6583-6589	54
1380	Fabrication of nanocomposite membranes from nanofibers and nanoparticles for protection against chemical warfare stimulants. 2007 , 42, 8400-8407	99
1379	Single molecule spectroscopy of poly 3-octyl-thiophene (P3OT). 2007 , 17, 749-57	43

1378	Nanowires: properties, applications and synthesis via porous anodic aluminium oxide template. Bulletin of Materials Science, 2007 , 30, 271-290 1.7	146
1377	Quantum dots coordinated with conjugated organic ligands: new nanomaterials with novel photophysics. 2007 , 2, 282-290	57
1376	ZnO Nanorods via Spray Deposition of Solutions Containing Zinc Chloride and Thiocarbamide. 2007 , 2, 391-6	43
1375	Progress in polymer solar cell. 2007 , 52, 145-158	16
1374	Photovoltaic devices from CdSe nanocrystals and conjugated polymer composites. 2007 , 2, 383-386	7
1373	Effect of electric field on the photoluminescence intensity of single CdSe nanocrystals. 2007, 341, 169-174	75
1372	Synthesis and photocatalytic activity of poly(3-hexylthiophene)/TiO2 composites. 2007, 180, 2986-2989	46
1371	Hydrothermal synthesis of TiO2 nanofibres. 2007 , 27, 80-82	14
1370	Interaction between excitons determines the non-linear response of nanocrystals. 2008, 350, 56-68	17
1369	Hybrid bulk heterojunction solar cells based on blends of TiO2 nanorods and P3HT. 2008 , 9, 110-118	27
1368	Photon energy up-conversion in colloidal TiO2 nanorods. <i>Optical Materials</i> , 2008 , 30, 1139-1144 3.3	18
1367	Polymer nanotechnology: Nanocomposites. 2008 , 49, 3187-3204	2576
1366	Electrical properties of a composite comprising epoxy resin and \(\text{Hematite nanorods.}\) 2008, 49, 4000-4008	8
1365	P3HT/ZnO bulk-heterojunction solar cell sensitized by a perylene derivative. 2008 , 92, 766-771	48
1364	Effect of zinc oxide incorporation on the morphology of tris(8-hydroxyquinoline)aluminum/zinc oxide hybrid nanomaterials. 2008 , 516, 7299-7305	14
1363	Photocurrent generation in a CdS nanocrystals/poly[2-methoxy-5-(2?-ethyl-exyloxy)phenylene vinylene] electrochemical cell. 2008 , 516, 5010-5015	13
1362	Preparation and formation mechanism of strong violet luminescent CdS quantum dots by using a ligand exchange strategy. 2008 , 10, 59-67	13
1361	Polymer-assisted synthesis of water-soluble PbSe quantum dots. 2008 , 10, 171-177	3

1360	Non-invasive near infrared fluorescence imaging of CdHgTe quantum dots in mouse model. 2008 , 18, 801-11	54
1359	Interfacial analysis and properties of regioregular poly(3-hexyl thiophene) spin-coated on an indium tin oxide-coated glass substrate. 2008 , 43, 5599-5604	16
1358	Morphology control of 1D ZnO nanostructures grown by metal-organic chemical vapor deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2008 , 19, 760-763	14
1357	Photovoltaic properties of MEH-PPV/TiO2 nanocomposites. 2008 , 53, 2743-2747	6
1356	3-D characterization of CdSe nanoparticles attached to carbon nanotubes. 2008 , 1, 89-97	37
1355	Synthesis and Characterization of Metal Nanoparticle Embedded Conducting Polymer P olyoxometalate Composites. 2008 , 3, 14-20	60
1354	Investigation on Photovoltaic Performance based on Matchstick-Like Cu(2)S-In(2)S(3) Heterostructure Nanocrystals and Polymer. 2008 , 3, 502-507	36
1353	Colloidal CdSe quantum dot electroluminescence: ligands and light-emitting diodes. 2008, 160, 345-350	31
1352	Colloidal nanocrystal solar cells. 2008 , 160, 315-325	71
1351	Direct fabrication of cerium oxide hollow nanofibers by electrospinning. 2008, 26, 664-669	114
1351 1350	Direct fabrication of cerium oxide hollow nanofibers by electrospinning. 2008, 26, 664-669 Scanning probe-based fabrication of 3D nanostructures via affinity templates, functional RNA, and meniscus-mediated surface remodeling. 2008, 30, 159-71	114
	Scanning probe-based fabrication of 3D nanostructures via affinity templates, functional RNA, and	
1350	Scanning probe-based fabrication of 3D nanostructures via affinity templates, functional RNA, and meniscus-mediated surface remodeling. 2008 , 30, 159-71 Anomalous photoluminescence in CdSe quantum-dot solids at high pressure due to nonuniform	15
1350 1349	Scanning probe-based fabrication of 3D nanostructures via affinity templates, functional RNA, and meniscus-mediated surface remodeling. 2008, 30, 159-71 Anomalous photoluminescence in CdSe quantum-dot solids at high pressure due to nonuniform stress. 2008, 4, 788-94 Creating a uniform distribution of fullerene C60 nanorods in a polymer matrix and its photovoltaic	15
1350 1349 1348	Scanning probe-based fabrication of 3D nanostructures via affinity templates, functional RNA, and meniscus-mediated surface remodeling. 2008, 30, 159-71 Anomalous photoluminescence in CdSe quantum-dot solids at high pressure due to nonuniform stress. 2008, 4, 788-94 Creating a uniform distribution of fullerene C60 nanorods in a polymer matrix and its photovoltaic applications. 2008, 4, 601-6 Rod-shaped nanocrystals elicit neuronal activity in vivo. 2008, 4, 1747-55	15 18 68
1350 1349 1348	Scanning probe-based fabrication of 3D nanostructures via affinity templates, functional RNA, and meniscus-mediated surface remodeling. 2008, 30, 159-71 Anomalous photoluminescence in CdSe quantum-dot solids at high pressure due to nonuniform stress. 2008, 4, 788-94 Creating a uniform distribution of fullerene C60 nanorods in a polymer matrix and its photovoltaic applications. 2008, 4, 601-6 Rod-shaped nanocrystals elicit neuronal activity in vivo. 2008, 4, 1747-55	15 18 68 32
1350 1349 1348 1347	Scanning probe-based fabrication of 3D nanostructures via affinity templates, functional RNA, and meniscus-mediated surface remodeling. 2008, 30, 159-71 Anomalous photoluminescence in CdSe quantum-dot solids at high pressure due to nonuniform stress. 2008, 4, 788-94 Creating a uniform distribution of fullerene C60 nanorods in a polymer matrix and its photovoltaic applications. 2008, 4, 601-6 Rod-shaped nanocrystals elicit neuronal activity in vivo. 2008, 4, 1747-55 Heterointerfaces in semiconductor nanowires. 2008, 4, 1872-93	15 18 68 32 113

1342	Characterization of Si nanorods by spectroscopic ellipsometry with efficient theoretical modeling. 2008 , 205, 876-879	26
1341	Effects of a ZnS-shell on the structural and electronic properties of CdSe-nanorods. 2008 , 245, 2111-2114	6
1340	Direct Observation of Alkyl Chain Interdigitation in Conjugated Polyquarterthiophene Self-Organized on Graphite Surfaces. 2008 , 29, 1197-1202	51
1339	Liquid Crystalline Orientation of Semiconducting Nanorods in a Semiconducting Matrix. 2008, 29, 922-927	39
1338	Controlled synthesis and luminescence of semiconductor nanorods. 2008 , 14, 5951-6	25
1337	Determination of band structure parameters and the quasi-particle gap of CdSe quantum dots by cyclic voltammetry. 2008 , 9, 2574-9	169
1336	Influence of solvents on the hydrothermal formation of one-dimensional magnesium hydroxide. 2008 , 43, 1057-1061	10
1335	Recent developments in solid-state dye-sensitized solar cells. 2008 , 1, 699-707	268
1334	Cationic water-soluble poly(p-phenylene vinylene) for fluorescence sensors and electrostatic self-assembly nanocomposites with quantum dots. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 3225-3233	8
1333	A rare (3,4)-connected chalcogenide superlattice and its photoelectric effect. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 113-6	108
1332	Hybrid Solar Cells from a Blend of Poly(3-hexylthiophene) and Ligand-Capped TiO2 Nanorods. 2008 , 18, 622-633	132
1331	Interaction Scheme and Temperature Behavior of Energy Transfer in a Light-Emitting Inorganic-Organic Composite System. 2008 , 18, 751-757	35
1330	Intramolecular DonorAcceptor Regioregular Poly(3-hexylthiophene)s Presenting Octylphenanthrenyl-Imidazole Moieties Exhibit Enhanced Charge Transfer for Heterojunction Solar Cell Applications. 2008 , 18, 2356-2365	89
1329	Rectangular AgIn(WO4)2 Nanotubes: A Promising Photoelectric Material. 2008, 18, 2328-2334	82
1328	Controlling the Optical Properties of Inorganic Nanoparticles. 2008 , 18, 1157-1172	204
1327	Soft Nanopatterning on Light-Emitting Inorganic Drganic Composites. 2008 , 18, 2692-2698	24
1326	A Ligand Exchange Route to Highly Luminescent Surface-Functionalized ZnS Nanoparticles and Their Transparent Polymer Nanocomposites. 2008 , 18, 3070-3079	62
1325	Effect of SWNT Defects on the Electron Transfer Properties in P3HT/SWNT Hybrid Materials. 2008 , 18, 2659-2665	99

1324	Synthesis of Semiconducting Functional Materials in Solution: From II-VI Semiconductor to Inorganic Drganic Hybrid Semiconductor Nanomaterials. 2008 , 18, 3357-3366	112
1323	Solar Cells with Enhanced Photocurrent Efficiencies Using Oligoaniline-Crosslinked Au/CdS Nanoparticles Arrays on Electrodes. 2008 , 18, 3497-3505	41
1322	Imaging the Interfaces of Conjugated Polymer Optoelectronic Devices. 2008 , 20, 528-534	45
1321	Light-Induced Charge Transfer in Pyrene/CdSe-SWNT Hybrids. 2008, 20, 939-946	158
1320	Pentacene-Zinc Oxide Vertical Diode with Compatible Grains and 15-MHz Rectification. 2008 , 20, 1023-1028	86
1319	Hollow TiO2 Hemispheres Obtained by Colloidal Templating for Application in Dye-Sensitized Solar Cells. 2008 , 20, 1059-1064	188
1318	Direct Formation of PbS Nanorods in a Conjugated Polymer. 2008 , 20, 3105-3109	44
1317	Demonstration of Bulk Semiconductor Optical Properties in Processable Ag2S and EuS Nanocrystalline Systems. 2008 , 20, 2439-2443	113
1316	Multiplex Imaging of Pancreatic Cancer Cells by Using Functionalized Quantum Rods. 2008, 20, 1412-1417	67
1315	Self-Organized Semiconducting Polymer-Incorporated Mesostructured Titania for Photovoltaic Applications. 2008 , 20, 2541-2546	27
1314	Evolution of Self-Assembled Structures of Polymer-Terminated Gold Nanorods in Selective Solvents. 2008 , 20, 4318-4322	114
1313	Pyrenecyclodextrin-Decorated Single-Walled Carbon Nanotube Field-Effect Transistors as Chemical Sensors. 2008 , 20, 1910-1915	93
1312	Complete Quenching of CdSe Nanocrystal Photoluminescence by Single Dye Molecules. 2008, 20, 4274-4280	61
1311	Nanowire Waveguides and Ultraviolet Lasers Based on Small Organic Molecules. 2008 , 20, 1661-1665	244
1310	Direct Growth of Highly Mismatched Type II ZnO/ZnSe Core/Shell Nanowire Arrays on Transparent Conducting Oxide Substrates for Solar Cell Applications. 2008 , 20, 3248-3253	286
1309	Low-Dimensional Nanomaterials Based on Small Organic Molecules: Preparation and Optoelectronic Properties. 2008 , 20, 2859-2876	354
1308	A Rare (3,4)-Connected Chalcogenide Superlattice and Its Photoelectric Effect. <i>Angewandte Chemie</i> , 2008 , 120, 119-122	17
1307	Engineered Nanomaterials as Soluble Precursors for Inorganic Films. 313-347	1

1306	polyethyleneimine. 2008 , 310, 5252-5258	32
1305	Role of defect states on electrical and optical properties in CdSe nanorod thin films. 2008 , 40, 2063-2065	2
1304	PPV/TiO2 hybrid composites prepared from PPV precursor reaction in aqueous media and their application in solar cells. 2008 , 49, 1587-1593	28
1303	Synthesis of MDMO-PPV capped PbS quantum dots and their application to solar cells. 2008 , 49, 4647-4651	48
1302	A convenient method for preparing shape-controlled nanocrystalline Cu2O in a polyol or water/polyol system. 2008 , 181, 249-254	20
1301	The molecular and solid state structure of lead thiobenzoate Pb[SC(O)Ph]2. 2008, 890, 130-132	3
1300	Nanostructures for photovoltaics. 2008 , 62, 175-189	181
1299	Photoinduced charge separation in poly(1,4-phenylenevinylene) derivatives studied by electron paramagnetic resonance. 2008 , 9, 809-815	3
1298	OrganicInorganic hybrid composites for photovoltaics: Organic guest molecules embedded in II-Si and ZnSe host matrices. 2008 , 33, 262-266	8
1297	Preparation and characterization of CuInSe2 nano-particles. 2008 , 69, 637-640	23
1296	Hybrid photovoltaic cell with well-ordered nanoporous titania P3HT by nanoimprinting lithography. 2008 , 69, 1301-1304	19
1295	IVII Nanocrystalpolymer solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 195, 39-46	49
1294	Enhanced photocurrent and efficiency of poly(3-hexylthiophene)/fullerene photovoltaic devices by the incorporation of gold nanoparticles. 2008 , 14, 382-386	35
1293	Shell thickness dependence of exciton trapping in colloidal core/shell nanorods. 2008, 128, 361-365	5
1292	Growth, morphology and optical properties of tris(8-hydroxyquinoline)aluminum/zinc oxide hybrid nanowires. 2008 , 128, 1629-1634	9
1291	Blue shift in the luminescence spectra of MEH-PPV films containing ZnO nanoparticles. 2008 , 128, 2031-2034	47
1290	Room temperature synthesis and characterization of CdO nanowires by chemical bath deposition (CBD) method. 2008 , 254, 3269-3273	72
1289	The optical properties of the blends of CdSe nanocrystals and poly(N-vinylcarbazole). 2008, 254, 6341-6345	20

1288	Hybrid bulk heterojunction solar cells from a blend of poly(3-hexylthiophene) and TiO2 nanotubes. 2008 , 255, 1916-1920	19
1287	Colloidal quantum dots. 2008 , 9, 777-787	35
1286	Size-dependence of stability and optical properties of lead sulfide clusters. 2008, 457, 163-168	17
1285	First-principles theoretical analysis of dopant adsorption and diffusion on surfaces of ZnSe nanocrystals. 2008 , 462, 265-268	3
1284	Photoelectrochemical signal chain based on quantum dots on goldsensitive to superoxide radicals in solution. 2008 , 24, 260-5	51
1283	Synthesis of CdSe nanoparticles into the pores of mesoporous silica microspheres. 2008 , 56, 1144-1150	26
1282	Optical and electrical properties of hybrid photovoltaic devices from poly (3-phenyl hydrazone thiophene) (PPHT) and TiO2 blend films. 2008 , 92, 61-70	35
1281	Novel hybrid polymer photovoltaics made by generating silver nanoparticles in polymer:fullerene bulk-heterojunction structures. 2008 , 92, 397-401	57
1280	Photoresponsive properties of multilayers of conductive polymer and CdSe nanoparticles. 2008 , 92, 543-549	11
1279	Surface ligand effects in MEH-PPV/TiO2 hybrid solar cells. 2008 , 92, 1403-1409	71
1278	Photovoltaic performance of hybrid solar cell with TiO2 nanotubes arrays fabricated through liquid deposition using ZnO template. 2008 , 92, 1445-1449	50
1277	Iridium-catalyzed borylation of thiophenes: versatile, synthetic elaboration founded on selective C-H functionalization. 2008 , 64, 6103-6103	74
1276	Structural and chemical investigation of CdSe crystals deposited in a nanoporous solgel: Effect of chemistry and defects on photovoltaic properties. 2008 , 516, 2203-2212	7
1275	Nanoparticle-polymer photovoltaic cells. 2008 , 138, 1-23	398
1274	TiO2 Nanotube arrays: Elimination of disordered top layers (Banograss) for improved photoconversion efficiency in dye-sensitized solar cells. 2008 , 10, 1835-1838	181
1273	Synthesis, characterization and photoelectrochemical properties of poly(3,4-dioctyloxythiophene)IdS hybrid electrodes. 2008 , 53, 2984-2993	7
1272	Synthesis of polypeptide/inorganic hybrid block copolymers. 2008 , 44, 3676-3687	5
1271	The design and outdoor application of dye-sensitized solar cells. 2008 , 361, 786-791	54

1270	Hybrid solar cells. 2008 , 361, 581-588	241
1269	Multiple Families of Magic-Sized CdSe Nanocrystals with Strong Bandgap Photoluminescence via Noninjection One-Pot Syntheses. 2008 , 112, 13805-13811	141
1268	Electro-optical modeling of bulk heterojunction solar cells. 2008, 104, 094513	63
1267	Detailed balance theory of excitonic and bulk heterojunction solar cells. 2008, 78,	86
1266	Enhanced charge carrier generation in dye sensitized solar cells by nanoparticle plasmons. 2008 , 92, 013113	213
1265	Exciton Dissociation in CdSe Quantum Dots by Hole Transfer to Phenothiazine. 2008 , 112, 19734-19738	150
1264	Preparation and Characterization of Water Self-dispersible Poly(3-hexylthiophene) Particles. 2008 , 40, 33-36	53
1263	Synthesis and Properties of a Novel Brush-type Copolymers Bearing Thiophene Backbone and 3-(N-carbazolyl)propyl Acrylate Side Chains for Light-emitting Applications. 2008 , 40, 421-427	18
1262	Highly luminescent lead sulfide nanocrystals in organic solvents and water through ligand exchange with poly(acrylic acid). 2008 , 24, 8215-9	87
1261	Understanding and Controlling the Growth of Monodisperse CdS Nanowires in Solution. 2008 , 20, 5444-5452	41
1260	Donor-pi-acceptor conjugated copolymers for photovoltaic applications: tuning the open-circuit voltage by adjusting the donor/acceptor ratio. 2008 , 112, 2801-8	99
1259	Synthesis and photovoltaic application of copper(I) sulfide nanocrystals. 2008 , 8, 2551-5	587
1258	Synthesis of CulnS2, CulnSe2, and Cu(InxGa(1-x))Se2 (CIGS) nanocrystal "inks" for printable photovoltaics. 2008 , 130, 16770-7	831
1257	Stabilized Polymers with Novel Indenoindene Backbone against Photodegradation for LEDs and Solar Cells. 2008 , 41, 7296-7305	67
1256	CdSe Quantum Dot-Sensitized Solar Cells Exceeding Efficiency 1% at Full-Sun Intensity. 2008, 112, 11600-1160	08 28
1255	Quantum Dot Solar Cells. Semiconductor Nanocrystals as Light Harvesters 2008, 112, 18737-18753	2168
1254	Growth mechanism, shape and composition control of semiconductor nanocrystals. 2008, 1-34	3
1253	Carbon nanotubes: a multi-functional material for organic optoelectronics. 2008, 18, 1183	117

1252	A Theoretical Study on the Electronic Structure of ZnSe/ZnS and ZnS/ZnSe Core/Shell Nanoparticles. 2008 , 112, 11630-11636	38
1251	Controlled Synthesis and Optical Properties of Colloidal Ternary Chalcogenide CuInS2 Nanocrystals. 2008 , 20, 6434-6443	479
1250	Organic solar cells: Structure, materials, critical characteristics, and outlook. 2008, 3, 242-271	29
1249	Nanoparticle-assisted high photoconductive gain in composites of polymer and fullerene. 2008 , 3, 543-7	171
1248	Space-separated quantum cutting with silicon nanocrystals for photovoltaic applications. 2008 , 2, 105-109	276
1247	. 2008 , 55, 2988-3000	30
1246	Controlling the aspect ratio of quantum dots: From columnar dots to quantum rods. 2008, 14, 1204-1213	15
1245	Preparation of transparent silica B MMA nanocomposite hard coatings. 2008 , 62, 436-439	49
1244	CuO nanocrystals with controllable shapes grown from solution without any surfactants. 2008, 109, 34-38	46
1243	Synthesis of conducting polythiophene composites with multi-walled carbon nanotube by the Fradiolysis polymerization method. 2008 , 112, 779-782	43
1242	Low temperature synthesis of InP nanocrystals. 2008, 112, 1120-1123	22
1241	Size-dependent blue luminescent CdS nanocrystals synthesized through a single-source molecular precursor route. 2008 , 43, 1093-1098	4
1240	Photoluminescence-enhanced biocompatible quantum dots by phospholipid functionalization. 2008 , 43, 2626-2635	17
1239	Preparation and characterization of cadmium sulfide nanorods by novel solvothermal method. 2008 , 62, 1993-1995	24
1238	Hydrothermal synthesis and optical properties of CuS nanoplates. 2008, 62, 2279-2281	65
1237	Preparation of poly(methyl methacrylate)/lanthanum hydroxide nanowire nanocomposites with improvement in thermal stability. 2008 , 62, 4290-4292	5
1236	Morphology and Crystalline Transition of Poly(3-butylthiophene) Associated with Its Polymorphic Modifications. 2008 , 41, 2062-2070	75
1235	Semiconductor Nanocrystal Quantum Dots. 2008,	196

1234	Optical Properties of ZnO Quantum Dots in Epoxy with Controlled Dispersion. 2008, 112, 16002-16010	88
1233	Surface modification of ZnO using triethoxysilane-based molecules. 2008 , 24, 13393-8	88
1232	PEG-Mediated Hydrothermal Growth of Single-Crystal Tellurium Nanotubes. 2008 , 8, 4415-4419	33
1231	Gold Nanoparticles Linked by Pyrrole- and Thiophene-Based Thiols. Electrochemical, Optical, and Conductive Properties. 2008 , 20, 397-412	59
1230	Electroluminescence from nanocrystals in an electromigrated gap composed of two different metals. 2008 , 8, 1347-51	10
1229	PEGylated silicon nanoparticles: synthesis and characterization. 2008, 6126-7	57
1228	Role of semiconducting and metallic tubes in P3HT/carbon-nanotube photovoltaic heterojunctions: density functional theory calculations. 2008 , 8, 908-12	135
1227	Design of light scattering in nanowire materials for photovoltaic applications. 2008, 8, 2638-42	435
1226	To dope Mn2+ in a semiconducting nanocrystal. 2008 , 130, 10605-11	217
1225	Charge collection and pore filling in solid-state dye-sensitized solar cells. 2008 , 19, 424003	232
1224	Solution-processed ultraviolet photodetectors based on colloidal ZnO nanoparticles. 2008, 8, 1649-53	666
1223	Hybrid nanocomposite materials with organic and inorganic components for opto-electronic devices. 2008 , 18, 1064	163
1222	Direct observation of the radial breathing mode in CdSe nanorods. 2008, 8, 4614-7	33
1221	PEDOT-Type Materials in Organic Solar Cells. 211-242	3
122 0	Biomolecules Functionalized Carbon Nanotubes and Their Applications. 2008, 181-221	7
1219	Photovoltaic measurements in single-nanowire silicon solar cells. 2008 , 8, 710-4	513
1218	Ternary I-III-VI quantum dots luminescent in the red to near-infrared. 2008, 130, 9240-1	402
1217	Hierarchically Nanostructured Magnetic Hollow Spheres of Fe3O4and Fe2O3: Preparation and Potential Application in Drug Delivery. 2008 , 112, 1851-1856	301

1216	Composition-limited spectral response of hybrid photovoltaic cells containing infrared PbSe nanocrystals. 2008 , 104, 044306	15
1215	Electrochemical Synthesis and Photovoltaic Property of Cadmium Sulfide P olybithiophene Interdigitated Nanohybrid Thin Films. 2008 , 112, 19765-19769	24
1214	Electrospun nanofibers in energy and environmental applications. 2008, 1, 205	754
1213	Synthesis of Cu-In-S ternary nanocrystals with tunable structure and composition. 2008 , 130, 5620-1	405
1212	Gold Nanoparticle Linking to Polypyrrole and Polythiophene: Monolayers and Multilayers. 2008 , 20, 6509-651	637
1211	Tuning energetic levels in nanocrystal quantum dots through surface manipulations. 2008, 8, 678-84	140
121 0	Nanotechnology-Enabled Sensors. 2008,	51
1209	InP nanowire/polymer hybrid photodiode. 2008 , 8, 775-9	157
1208	Medicinal Chemistry and Pharmacological Potential of Fullerenes and Carbon Nanotubes. 2008,	87
1207	Monodisperse oligo(phenylene vinylene) ligands on CdSe quantum dots: synthesis and polarization anisotropy measurements. 2008 , 130, 2384-5	38
1206	Liquid crystalline phases from polymer functionalised semiconducting nanorods. 2008, 18, 3050	67
1205	Hybrid Network Structure and Mechanical Properties of Rodlike Silicate/Cyanate Ester Nanocomposites. 2008 , 41, 9245-9258	102
1204	Synthesis, characterization, and transistor response of semiconducting silole polymers with substantial hole mobility and air stability. Experiment and theory. 2008 , 130, 7670-85	326
1203	Ultrathin ∄n2S3 Nanobelts: Shape-Controlled Synthesis and Optical and Photocatalytic Properties. 2008 , 8, 2130-2136	94
1202	Probing the chemistry of molecular heterojunctions using thermoelectricity. 2008 , 8, 715-9	230
1201	Reaction of gold nanoparticles with tetracyanoquinoidal molecules. Spectrophotometric determination of the Au0 content of gold nanoparticles. 2008 , 80, 815-8	5
1200	Single and tandem axial p-i-n nanowire photovoltaic devices. 2008 , 8, 3456-60	373
1199	Improved charge separation and transport efficiency in poly(3-hexylthiophene)IIiO2nanorod bulk heterojunction solar cells. 2008 , 18, 2201	58

1198	Charge transport in PbSe nanocrystal arrays. 2008 , 77,	97
1197	Facile aqueous synthesis and growth mechanism of CdTe nanorods. 2008, 19, 445603	24
1196	Self-assembly of amphiphilic gold nanoparticles decorated with a mixed shell of oligo(p-phenylene vinylene)s and ethyleneoxide ligands. 2008 , 18, 3438	22
1195	White emitting CdS quantum dot nanoluminophores hybridized on near-ultraviolet LEDs for high-quality white light generation and tuning. 2008 , 10, 023026	52
1194	Synthesis of high aspect ratio quantum-size CdS nanorods and their surface-dependent photoluminescence. 2008 , 24, 9043-9	117
1193	Systematic Control of Particle Size in Rapid Open-Vessel Microwave Synthesis of K-OMS-2 Nanofibers. 2008 , 112, 6786-6793	62
1192	Ultrafast carrier dynamics and confined acoustic phonons in CdSe nanorods. 2008, 10, 064004	8
1191	Eu(3+) doped gadolinium oxysulfide (Gd(2)O(2)S) nanostructures-synthesis and optical and electronic properties. 2008 , 19, 395703	45
1190	Pulsed field gradient NMR studies of polymer adsorption on colloidal CdSe quantum dots. 2008 , 112, 1626-33	35
1189	The effects of surface and initial stresses on the bending stiffness of nanowires. 2008 , 19, 405703	18
1188	Quantum nanoscience. 2008 , 49, 413-433	10
1187	Ordered bulk heterojunction solar cells with vertically aligned TiO2 nanorods embedded in a conjugated polymer. 2008 , 93, 033307	115
1186	MEASURING ULTRAFAST PHOTOINDUCED ELECTRON-TRANSFER DYNAMICS. 2008, 633-674	
1185	INORGANIC EXTENDED-JUNCTION DEVICES. 2008, 393-452	
1184	DYE-SENSITISED MESOSCOPIC SOLAR CELLS. 2008 , 503-536	20
1183	Layer-by-layer assembled composite films of side-functionalized poly(3-hexylthiophene) and CdSe nanocrystals: electrochemical, spectroelectrochemical and photovoltaic properties. <i>Physical</i> 3.6 <i>Chemistry Chemical Physics</i> , 2008 , 10, 4027-35	25
1182	Quantum Dots from Chemical Aerosol Flow Synthesis: Preparation, Characterization, and Cellular Imaging. 2008 , 20, 4033-4038	52
1181	Fabrication of slantingly-aligned silicon nanowire arrays for solar cell applications. 2008, 19, 255703	194

1180	Controlled Synthesis of Hyperbranched Cadmium Sulfide Micro/Nanocrystals. 2008, 8, 629-634	49
1179	High Photoconductive Vertically Oriented TiO2 Nanotube Arrays and Their Composites with Copper Phthalocyanine. 2008 , 112, 2343-2348	30
1178	Enhancing photoluminescence quenching and photoelectric properties of CdSe quantum dots with hole accepting ligands. 2008 , 18, 675	210
1177	Control in Energy Levels of Conjugated Polymers for Photovoltaic Application 2008, 112, 7866-7871	57
1176	Robust microstructures using UV photopatternable semiconductor nanocrystals. 2008, 8, 3262-5	54
1175	Morphological control of CuPc and its application in organic solar cells. 2008 , 19, 415603	48
1174	Relating conformation and photophysics in single MEH-PPV chains. 2008, 112, 12575-8	92
1173	Experimental investigation of exciton-LO-phonon couplings in CdSe/ZnS core/shell nanorods. 2008 , 77,	47
1172	Synthesis of CdSe quantum dots: Effect of surfactant on the photoluminescence property. 2008,	3
1171	Electronic excitations in single-walled GaN nanotubes from first principles: Dark excitons and unconventional diameter dependences. 2008 , 77,	38
1170	Study of the mechanical properties of hybrid coating as a function of their structures using nanoindentation. 2008 , 354, 712-716	15
1169	Composition-controllable synthesis and optical properties of non-integral stoichiometry compound ZnxCd1IIS nanorods. 2008 , 454, 255-260	30
1168	Surfactant free hydrothermal formation of Pb3O4 nanorods. 2008 , 466, 323-325	3
1167	Charge transport and photocurrent generation in PPAT:ZnO bulk heterojunction photovoltaic devices. 2008 , 158, 400-410	26
1166	Effect of electrolyte solvent on the morphology of polypyrrole films: Application to the use of polypyrrole in pH sensors. 2008 , 158, 453-461	83
1165	Remarkable magneto-optical properties of europium selenide nanoparticles with wide energy gaps. 2008 , 130, 5710-5	80
1164	Directed self-assembly in laponite/CdSe/polyaniline nanocomposites. 2008 , 24, 9727-38	27
1163	Photoconduction in Annealed and Chemically Treated CdSe/ZnS Inorganic Nanocrystal Films. 2008 , 112, 2308-2316	61

1162	New Efficiency Records for Stable Dye-Sensitized Solar Cells with Low-Volatility and Ionic Liquid Electrolytes. 2008 , 112, 17046-17050	188
1161	Quantum dot solar cells. Tuning photoresponse through size and shape control of CdSe-TiO2 architecture. 2008 , 130, 4007-15	1463
1160	Silicon nanowire array photoelectrochemical solar cells. 2008 , 92, 163103	233
1159	Photovoltaic nanocrystal scintillators hybridized on Si solar cells for enhanced conversion efficiency in UV. 2008 , 16, 3537-45	27
1158	Investigation of optical limiting in iron oxide nanoparticles. 2008 , 16, 8440-50	39
1157	SOA gate array recirculating buffer with fiber delay loop. 2008 , 16, 8451-6	34
1156	Long-path supercontinuum absorption spectroscopy for measurement of atmospheric constituents. 2008 , 16, 8457-71	33
1155	Polarization selective electro-optic polymer waveguide devices by direct electron beam writing. 2008 , 16, 8472-9	3
1154	A hybrid electroabsorption modulator device for generation of high spectral-efficiency optical modulation formats. 2008 , 16, 8480-6	26
1153	Method for characterization of diffusion properties of photopolymerisable systems. 2008 , 16, 8487-97	23
1152	Toward a low-jitter 10 GHz pulsed source with an optical frequency comb generator. 2008 , 16, 8498-508	39
1151	Effect of implementation of a Bragg reflector in the photonic band structure of the Suzuki-phase photonic crystal lattice. 2008 , 16, 8509-18	6
1150	Detection efficiency in total internal reflection fluorescence microscopy. 2008 , 16, 8519-31	11
1149	Bend performance-enhanced photonic crystal fibers with anisotropic numerical aperture. 2008, 16, 8532-48	13
1148	Reversible switching of quantum cascade laser-modes using a pH-responsive polymeric cladding as transducer. 2008 , 16, 8557-69	4
1147	Dispersion and extinction of surface plasmons in an array of gold nanoparticle chains: influence of the air/glass interface. 2008 , 16, 8570-80	32
1146	Slow Bloch modes for enhancing the absorption of light in thin films for photovoltaic cells. 2008 , 92, 193310	93
1145	Static and dynamic polarizabilities of (CdSe)n (n=1🛮6) clusters. 2008 , 44, 728-732	24

1144	Ab initio methods for the optical properties of CdSe clusters. 2008 , 77,		40
1143	Nanocomposite Polymeric Microspheres Containing Ni Nanoparticles with Controlled Microstructures. 2008 , 20, 3042-3047		24
1142	Inorganic Materials as Catalysts for Photochemical Splitting of Water. 2008 , 20, 35-54		1846
1141	Solvothermal synthesis of CdS nanorods and photovoltaic characteristics of CdS/PVK composite system. 2008 , 53, 46-52		5
1140	Photovoltaic properties of liquid-state photoelectrochemical cells based on PPAT and a composite film of PPAT and nanocrystalline titanium dioxide. 2008 , 158, 509-515		14
1139	Ultrafast Electron Transfer Dynamics in CdSe/CdTe DonorAcceptor Nanorods. 2008, 112, 12074-12076		76
1138	Examining FEster Energy Transfer for Semiconductor Nanocrystalline Quantum Dot Donors and Acceptors. 2008 , 112, 13336-13341		97
1137	Identification of shallow Al donors in Al-doped ZnO nanocrystals: EPR and ENDOR spectroscopy. 2008 , 77,		53
1136	Shape-controlled platinum nanocubes and their assembly into two-dimensional and three-dimensional superlattices. 2008 , 112, 14583-92		120
1135	Modeling of nanoscale morphology of regioregular poly(3-hexylthiophene) on a ZnO (1010) surface. 2008 , 8, 4185-90		32
1134	Hybrid bulk heterojunction solar cells fabricated by TiO2 aerogel and porphyrins. 2008,		
1133	Photovoltaic characterization of hybrid solar cells using surface modified TiO(2) nanoparticles and poly(3-hexyl)thiophene. 2008 , 19, 424009		44
1132	Temperature Dependence of the Photoluminescence of InP/ZnS Quantum Dots. 2008, 112, 6775-6780		77
1131	Macroporous Silicon as a Model for Silicon Wire Array Solar Cells. 2008 , 112, 6194-6201		61
1130	Control of nanoparticle dispersion in thin polymer films. <i>Soft Matter</i> , 2008 , 4, 2441	5	27
1129	Synthesis and properties of type II core/shell nanowire arrays for solar cells. 2008,		
1128	Nanoscale morphology and performance of molecular-weight-dependent poly(3-hexylthiophene)/TiO2nanorod hybrid solar cells. 2008 , 18, 4097		35
1127	Large-scale preparation of CdS quantum dots by direct thermolysis of a single-source precursor. 2008 , 19, 035602		18

1126	In situ preparation of CdS nanoparticles imbedded in a polyelectrolyte multilayer for photocurrent generation. 2008 , 92, 023507	12
1125	Carrier multiplication in a PbSe nanocrystal and P3HT/PCBM tandem cell. 2008 , 92, 191107	51
1124	Anodic Formation of Titania Nanotubes with Ultrahigh Aspect Ratio. 2008, 11, C23	16
1123	Bulk heterojunction organic-inorganic photovoltaic cells based on doped silicon nanowires. 2008 , 3, 77-86	16
1122	Shape evolution of star-shaped colloidal PbSe nanocrystals. 2008,	
1121	A facile nanotemplate preparation method for [60]fullerene nanofibres: surface-wetting. 2008 , 18, 4318	10
1120	Broad HOMO-LUMO gap tuning through the coordination of a single phosphine, aminophosphine or phosphite onto a Ru(tpy)(bpy)2+ core. <i>Dalton Transactions</i> , 2008 , 5627-35	25
1119	Two-dimensional arrays of luminescent metal-selenide nanoparticle. 2008, 1193-5	20
1118	Excitation-wavelength dependence of fluorescence intermittency in CdSe nanorods. <i>ACS Nano</i> , 2008 , 2, 2143-53	51
1117	Probing of Charge and Energy Transfer in Hybrid Systems of Aniline B -Methylthiophene Copolymer with CdS and CdSe Nanoparticles. 2008 , 112, 14745-14753	19
1116	The use of size-selective excitation to study photocurrent through junctions containing single-size and multi-size arrays of colloidal CdSe quantum dots. 2008 , 130, 83-92	41
1115	Modeling the self-assembly of colloidal nanorod superlattices. 2008 , 8, 3605-12	67
1114	Facet-Selective 2D Self-Assembly of TiO2 Nanoleaves via Supramolecular Interactions. 2008 , 20, 7514-7520	34
1113	"Supramolecular" assembly of gold nanorods end-terminated with polymer "pom-poms": effect of pom-pom structure on the association modes. 2008 , 130, 3683-9	193
1112	Photoresponses and memory effects in organic thin film transistors incorporating poly(3-hexylthiophene)/CdSe quantum dots. 2008 , 92, 143105	56
1111	Polaronic self-trapped energy and effective mass of a cylindrical wurtzite GaN nanowire. 2008 , 23, 045014	20
1110	Two-dimensional photonic crystal resist membrane nanocavity embedding colloidal dot-in-a-rod nanocrystals. 2008 , 8, 260-4	34
1109	Influence of the Substituent on the Chiroptical Properties of Poly(thieno[3,2-b]thiophene)s. 2008 , 41, 568-578	26

1108	Electron and hole transport to trap groups at the ends of conjugated polyfluorenes. 2008 , 130, 11912-20	73
1107	Direct observation and analysis of annealing-induced microstructure at interface and its effect on performance improvement of organic thin film transistors. 2008 , 112, 12270-8	24
1106	One-, two-, and three-dimensional superstructures of gold nanorods induced by dimercaptosuccinic acid. 2008 , 24, 4589-99	71
1105	Prediction of ultra-high aspect ratio nanowires from self-assembly. 2008 , 8, 2697-705	8
1104	2D self-bundled CdS nanorods with micrometer dimension in the absence of an external directing process. <i>ACS Nano</i> , 2008 , 2, 750-6	7 54
1103	Enabling nanoscience: from computation to experimental assay tools. <i>ACS Nano</i> , 2008 , 2, 811-2	7
1102	One-Step Fabrication of CdS Nanorod Arrays via Solution Chemistry. 2008 , 112, 13457-13462	80
1101	Nanotransfer of the polythiophene molecular alignment onto the step-bunched vicinal Si(111) substrate. 2008 , 24, 11605-10	11
1100	Size-Controllable Enhanced Energy Transfer from an Amphiphilic ConjugatedIbnic Triblock Copolymer to CdTe Quantum Dots in Aqueous Medium. 2008 , 112, 7278-7283	8
1099	High efficiency photodetectors fabricated by electrostatic layer-by-layer self-assembly of CdTe quantum dots. 2008 , 93, 163107	27
1098	Ultrafast Electron Transfer between Conjugated Polymer and Antimony-Doped Tin Oxide (ATO) Nanoparticles. 2008 , 112, 4761-4766	13
1097	Fabrication of Homogeneous Hybrid Nanorod of Organic/Inorganic Semiconductor Materials. 2008 , 112, 8223-8228	22
1096	Microwave induced in-situ active ion etching of growing InP nanocrystals. 2008, 8, 3394-7	42
1095	Synthesis and Use of Tris(trimethylsilyl)antimony for the Preparation of InSb Quantum Dots. 2008 , 20, 5727-5730	21
1094	Formation of Rod-Like CuInS2 Nanocrystals on the Glass Substrate. 2008 , 29, 801-803	
1093	Photoinduced ultrafast electron transfer from CdSe quantum dots to Re-bipyridyl complexes. 2008 , 130, 5632-3	216
1092	Flexible organic photovoltaics from zinc oxide nanowires grown on transparent and conducting single walled carbon nanotube thin films. 2008 , 18, 5909	84
1091	Organic/Inorganic Polymer Solar Cells Using a Buffer Layer from All-Water-Solution Processing. 2008 , 112, 9912-9916	52

1090	8, 660-664	19
1089	Fabrication and Electrochemical Photovoltaic Response of CdSe Nanorod Arrays. 2008 , 112, 8516-8520	29
1088	Simple electrochemical route to nanofiber junctions and dendrites of conducting polymer. 2008 , 24, 2128-32	11
1087	Morphogenesis of Branched Coaxial Nanorods Formed in Supercritical Carbon Dioxide. 2008 , 112, 2337-2342	7
1086	Preparation of CdS nanocrystals within supramolecular self-assembled nanoreactors and their phase transfer behavior. 2008 , 24, 11955-8	34
1085	Gram-Scale One-Pot Synthesis of Highly Luminescent Blue Emitting Cd1⊠ZnxS/ZnS Nanocrystals. 2008 , 20, 5307-5313	149
1084	Size-dependent charge collection in junctions containing single-size and multi-size arrays of colloidal CdSe quantum dots. 2008 , 130, 74-82	54
1083	A photovoltaic device based on a poly(phenyleneethynylene)/SWNT composite active layer. 2008 , 19, 115601	22
1082	Liquid Crystals from Polymer-Functionalized TiO2 Nanorod Mesogens. 2008, 41, 7946-7952	41
1081	Controlled Growth of Lead Oxide Nanosheets, Scrolled Nanotubes, and Nanorods. 2008 , 8, 3521-3525	30
1080	Quantum Dot Electrochemiluminescence in Aqueous Solution at Lower Potential and Its Sensing Application. 2008 , 112, 4451-4454	88
1079	Nanoscale co-organization of quantum dots and conjugated polymers using polymeric micelles as templates. 2008 , 130, 9481-91	54
1078	Small-angle rotation in individual colloidal CdSe quantum rods. <i>ACS Nano</i> , 2008 , 2, 1179-88 16.7	19
1077	Visible light-induced charge retention and photocatalysis with hybrid CdSe-Au nanodumbbells. 2008 , 8, 637-41	443
1076	Growth and Phase-Transformation Mechanisms of Nanocrystalline CdS in Na2S Solution. 2008 , 112, 9229-923.	335
1075	Nanoscale Structure of Self-Assembling Hybrid Materials of Inorganic and Electronically Active Organic Phases. 2008 , 112, 2881-2887	14
1074	Trapped-dopant model of doping in semiconductor nanocrystals. 2008 , 8, 2878-82	67
1073	Synthesis of Sulfur-Containing Polyacetylenes and Fabrication of Their Hybrids with ZnO Nanoparticles. 2008 , 41, 3874-3883	23

Self-Assembly of Three-Dimensional Nanostructured Antimony. 2008 , 20, 7532-7538	8
High-Yield Two-Dimensional CdS Nanowire Networks Synthesized by a Low-Temperature Chemical Method. 2008 , 20, 3770-3777	11
Self-assembly of CdTe nanocrystals at the water/oil interface by amphiphilic hyperbranched polymers. 2008 , 19, 445609	23
1069 Photovoltaic Cells with TiO 2 Nanocrystals and Conjugated Polymer Composites. 2008 , 25, 3013-3016	5
Improved performance of polymer/TiO2 nanorod bulk heterojunction photovoltaic devices by interface modification. 2008 , 92, 053312	80
1067 A facile single-source route to CdS´nanorods. 2008 , 19, 465606	13
Single Carrier Resonant Tunneling Design for Improving Carrier Collection in Quantum Confined Solar Cells. 2008 , 1102, 1	1
1065 ORGANIC DONORACCEPTOR HETEROJUNCTION SOLAR CELLS. 2008, 453-501	2
1064 Semiconductor nanowire photovoltaics. 2008,	3
1063 Organic photovoltaic cells made from phthalocyanine deckers. 2008 ,	
Organic photovoltaic cells made from phthalocyanine deckers. 2008, Effect of post annealing on the performance of CdSe/P3HT bulk hetero-junction solar cells. 2008,	
	18
1062 Effect of post annealing on the performance of CdSe/P3HT bulk hetero-junction solar cells. 2008 ,	18
Effect of post annealing on the performance of CdSe/P3HT bulk hetero-junction solar cells. 2008, 1061 A quantitative investigation of inertial power harvesting for human-powered devices. 2008,	
Effect of post annealing on the performance of CdSe/P3HT bulk hetero-junction solar cells. 2008, A quantitative investigation of inertial power harvesting for human-powered devices. 2008, Organic:PbS-nanocrystal:Fullerene Hybrid Photovoltaics. 2008, 1102, 1 Domain and network aggregation of CdTe quantum rods within Langmuir-Blodgett monolayers.	2
Effect of post annealing on the performance of CdSe/P3HT bulk hetero-junction solar cells. 2008, 1061 A quantitative investigation of inertial power harvesting for human-powered devices. 2008, 1060 Organic:PbS-nanocrystal:Fullerene Hybrid Photovoltaics. 2008, 1102, 1 1059 Domain and network aggregation of CdTe quantum rods within Langmuir-Blodgett monolayers. 2008, 19, 215606 Directed Synthesis of Micro-Sized Nanoplatelets of Gold from a Chemically Active Mixed Surfactant	2
Effect of post annealing on the performance of CdSe/P3HT bulk hetero-junction solar cells. 2008, A quantitative investigation of inertial power harvesting for human-powered devices. 2008, Organic:PbS-nanocrystal:Fullerene Hybrid Photovoltaics. 2008, 1102, 1 Domain and network aggregation of CdTe quantum rods within Langmuir-Blodgett monolayers. 2008, 19, 215606 Directed Synthesis of Micro-Sized Nanoplatelets of Gold from a Chemically Active Mixed Surfactant Mesophase. 2008, 235-249	2 16 2

1054	single-walled carbon nanotubes. 2008 , 19, 095603	54
1053	Exciton harvesting, charge transfer, and charge-carrier transport in amorphous-silicon nanopillar/polymer hybrid solar cells. 2008 , 103, 064511	50
1052	Fluoropolymer indium-tin-oxide buffer layers for improved power conversion in organic photovoltaics. 2008 , 93, 133302	52
1051	Effect of surface passivating ligand on structural and optoelectronic properties of polymer: CdSe quantum dot composites. 2008 , 41, 235409	37
1050	Nanoscale thermal-mechanical probe determination of 'softening transitions' in thin polymer films. 2008 , 19, 495703	21
1049	Combined spectroscopic characterization of electron transfer at hybrid CuPcF(16)/GaAs semiconductor interfaces. 2008 , 19, 424010	5
1048	Well-defined nanoarrays from an n-type organic perylene-diimide derivative for photoconductive devices. 2008 , 19, 055604	14
1047	Multiple exciton generation and electrical extraction from a PbSe quantum dot photoconductor. 2008 , 92, 031107	76
1046	Dielectric control of spin in semiconductor spherical quantum dots. 2008 , 104, 014313	2
1045	Quantum tunneling design for ultra-fast photogenerated carrier collection in p-i-n IIII quantum confined solar cells. 2008 ,	
1044	Hybrid nanocrystals-organic-semiconductor light sensor. 2008 , 92, 223112	31
1043	Photocurrent of CdSe nanocrystals on single-walled carbon nanotube-field effect transistor. 2008 , 92, 243103	21
1042	Ultra-lightweight space power from hybrid thin-film solar cells. 2008 , 23, 31-41	7
1041	Manipulating interfaces in a hybrid solar cell by in situ photosensitizer polymerization and sequential hydrophilicity/hydrophobicity control for enhanced conversion efficiency. 2008 , 92, 193307	35
1040	Vapor-phase nucleation of individual CdSe nanostructures from shape-engineered nanocrystal seeds. 2008 , 92, 023106	4
1039	Direct observation of the size dependence of Dexter energy transfer from polymer to small PbS quantum dots. 2008 , 93, 083106	14
1038	Effect of CdSe quantum dots on hole transport in poly(3-hexylthiophene) thin films. 2008, 92, 263504	19
1037	Organic photovoltaic cells made from sandwich-type rare earth phthalocyaninato double and triple deckers. 2008 , 93, 073303	25

1036	Unipolar transport and interface charge transfer in nanostructured CdTe/polymer hybrid films. 2008 , 77,	6
1035	Binding Characteristics of Surface Ligands on PbSe QDs and Impact on Electrical Conductivity. 2008 , 1113, 1	
1034	Formation of Cadmium Sulfide Nanoparticles in Poly(ethylene Glycol)-Modified Microemulsions. 2008 , 149-155	
1033	Critical interfaces in new solar cell materials: organic heterojunctions and heterojunctions involving semiconductor nanoparticles. 2008 ,	
1032	Synthesis of Chalcopyrite Nanoparticles via Thermal Decomposition of Metal-Thiolate. 2008 , 49, 435-438	35
1031	Organic Semiconductors for LowDost Solar Cells. 2008,	6
1030	Tandem inorganic/organic hybrid solar cell using a PbSe nanocrystal photoconductor for carrier multiplication. 2008 ,	
1029	Nitride /organic hybrid heterostructures for photodetector devices. 2008,	
1028	Influence of titania thin film morphology on the photovoltaic action of hybrid titania-P3HT solar cell. 2008 , 100, 082020	
1027	. 2008,	223
,	. 2008,	223 35
,		
1026	. 2008, Versatile Bottom-Up Approach to Nanostructured Functional Materials for Optoelectronic Applications. 2008, 2008, 1-4	
1026	. 2008, Versatile Bottom-Up Approach to Nanostructured Functional Materials for Optoelectronic Applications. 2008, 2008, 1-4	
1026 1025 1024	. 2008, Versatile Bottom-Up Approach to Nanostructured Functional Materials for Optoelectronic Applications. 2008, 2008, 1-4 Electrospinning Fabrication of Polycrystalline LaCrO3 Porous Hollow Nanofibers. 2009, 1,	
1026 1025 1024	. 2008, Versatile Bottom-Up Approach to Nanostructured Functional Materials for Optoelectronic Applications. 2008, 2008, 1-4 Electrospinning Fabrication of Polycrystalline LaCrO3 Porous Hollow Nanofibers. 2009, 1, Modern Applied Science, Vol. 3, No. 1, January 2009, all in one file. 2009, 3,	35
1026 1025 1024 1023 1022	. 2008, Versatile Bottom-Up Approach to Nanostructured Functional Materials for Optoelectronic Applications. 2008, 2008, 1-4 Electrospinning Fabrication of Polycrystalline LaCrO3 Porous Hollow Nanofibers. 2009, 1, Modern Applied Science, Vol. 3, No. 1, January 2009, all in one file. 2009, 3, . 2009,	35

1018	Fabrication of LaNiO3 Porous Hollow Nanofibers via an Electrospinning Technique. 2009, 3,	2
1017	Synthesis of LaMnO3 Nanofibers via Electrospinning. 2009 , 1,	4
1016	Synthesis of Poly[(3-(6-(9-anthracenylmethoxy)hexyl)thiophene)-co-(3-(6-bromohexyl)thiophene)] Postfunctionalized from Poly(3-(6-bromohexyl)thiophene): A Comparative Study of the Base Polymer with Its Chlorinated Analogous. 2009 , 2009, 1-7	
1015	Preparation of LaFeO3 Porous Hollow Nanofibers by Electrospinning. 2009 , 1,	9
1014	Integration of planar and bulk heterojunctions in polymer/nanocrystal hybrid photovoltaic cells. 2009 , 95, 063510	33
1013	Enhancement in hole current density on polarization in poly(3-hexylthiophene):cadmium selenide quantum dot nanocomposite thin films. 2009 , 94, 213503	19
1012	Nonvolatile memory device based on Ag nanoparticle: Characteristics improvement. 2009 , 94, 173510	39
1011	Charge transport at hybrid bulk heterojunction based on CdS nanopillar arrays embedded in a conducting polymer. 2009 , 106, 073701	8
1010	Structural and optical studies of local disorder sensitivity in natural organic[horganic self-assembled semiconductors. 2009 , 42, 185405	43
1009	Seebeck coefficient of thermoelectric molecular junctions: First-principles calculations. 2009 , 79,	56
1008	Coaxial nanocables of codoped double-walled carbon nanotubes. 2009 , 131, 214701	3
1007	Optical and Electronic Properties of Organic Photovoltaic Wires and Fabrics. 2009 , 46, 1238-1246	2
1006	Application of the thermal flash technique for low thermal diffusivity micro/nanofibers. 2009, 80, 036103	16
1005	Thermionic escape study in p-i-n InP/InAs53P47 multi-quantum well solar cell. 2009 ,	
1004	Bi-nanoparticle (CdTe and CdSe) mixed polyaniline hybrid thin films prepared using spin coating technique. 2009 , 105, 034904	8
1003	Efficient light harvesting in hybrid CdTe nanocrystal/bulk GaAs p-i-n photovoltaic devices. 2009 , 94, 233502	20
1002	Amorphous silicon as electron transport layer for colloidal semiconductor nanocrystals light emitting diode. 2009 , 95, 233502	4
1001	Optoelectronic properties of CdSe nanoparticles and their application to bulk hetero-junction solar cells. 2009 ,	

1000	Colloidal nanocrystal-based light-emitting diodes fabricated on plastic toward flexible quantum dot optoelectronics. 2009 , 105, 034312	41
999	UV photovoltaic cells based on conjugated ZnO quantum dot/multiwalled carbon nanotube heterostructures. 2009 , 94, 111906	42
998	Carrier transport mechanisms in nonvolatile memory devices fabricated utilizing multiwalled carbon nanotubes embedded in a poly-4-vinyl-phenol layer. 2009 , 95, 022104	19
997	Nonradiative energy transfer in ZnO nanorods/dye-doped polymer heterostructures. 2009 , 94, 233301	10
996	Blending Platinum Nanoparticles into Poly(3-hexylthiophene):[6,6]-phenyl-C[sub 61]-butyric Acid Methyl Ester Enhances the Efficiency of Polymer Solar Cells. 2009 , 156, B234	16
995	Hybrid P3HT/CdSe Photovoltaic Cells: Effects of Nanocrystal Size and Device Aging. 2009 , 1212, 1	
994	Three Dimensionally Structured CdTe Thin-Film Photovoltaic Devices with Self-Aligned Back-Contacts: Electrodeposition on Interdigitated Electrodes. 2009 , 156, H654	8
993	Nanostructured Conducting Polymer Biomaterials and their Applications in Controlled Drug Delivery. 279-299	2
992	Silicon nanorods / P3HT hybrid solar cells. 2009 ,	2
991	A simple hybrid inorganic-polymer photodiode. 2009 , 42, 165308	27
991 990	A simple hybrid inorganic-polymer photodiode. 2009 , 42, 165308 Semiconductor Nanocrystals: Doped Compositions. 2009 ,	27
		9
990	Semiconductor Nanocrystals: Doped Compositions. 2009,	
990 989	Semiconductor Nanocrystals: Doped Compositions. 2009, Photoluminescence of GaQ[sub 3]Al[sub 2]O[sub 3] Core-Shell Nanowires. 2009, 12, K49 Flexible photovoltaic cells fabricated utilizing ZnO quantum dot/carbon nanotube heterojunctions.	9
990 989 988	Semiconductor Nanocrystals: Doped Compositions. 2009, Photoluminescence of GaQ[sub 3]Al[sub 2]O[sub 3] Core-Shell Nanowires. 2009, 12, K49 Flexible photovoltaic cells fabricated utilizing ZnO quantum dot/carbon nanotube heterojunctions. 2009, 20, 155202	9
990 989 988 987	Semiconductor Nanocrystals: Doped Compositions. 2009, Photoluminescence of GaQ[sub 3]Al[sub 2]O[sub 3] Core-Shell Nanowires. 2009, 12, K49 Flexible photovoltaic cells fabricated utilizing ZnO quantum dot/carbon nanotube heterojunctions. 2009, 20, 155202 Integrated photonics using colloidal quantum dots. 2009, 3, 031608	9 22 6
990 989 988 987 986	Semiconductor Nanocrystals: Doped Compositions. 2009, Photoluminescence of GaQ[sub 3]Al[sub 2]O[sub 3] Core-Shell Nanowires. 2009, 12, K49 Flexible photovoltaic cells fabricated utilizing ZnO quantum dot/carbon nanotube heterojunctions. 2009, 20, 155202 Integrated photonics using colloidal quantum dots. 2009, 3, 031608 Zn cluster drifting effect for the formation of ZnO 3D nanoarchitecture. ACS Nano, 2009, 3, 1594-602 Polymer functionalized ZnO nanobelts as oxygen sensors with a significant response enhancement.	9 22 6 38

982	Photophysical properties of composite film of dendron-appended porphyrin and fullerene[60]. 2009 , 13, 769-773	4
981	Synthesis, characterisation and electric properties of polythiophene composites with various amphoteric oxides. 2009 , 13, 87-91	6
980	Colloidal Nanocrystal-Based Light-Emitting Diodes Fabricated on Plastic Towards Flexible Quantum Dot Optoelectronics. 2009 ,	
979	The electronic transport properties of ternary Cd(1-x)Zn(x)S nanowire networks. 2009 , 20, 445204	9
978	Electronic coupling of colloidal CdSe nanocrystals monitored by thin-film positron-electron momentum density methods. 2009 , 94, 091908	13
977	Effect of nanorods on the mesophase structure of diblock copolymers. 2009 , 130, 144907	28
976	Auger recombination and excited state relaxation dynamics in $Hg(n)(-)$ (n=9-20) anion clusters. 2009 , 130, 231103	3
975	Material and doping transitions in single GaAs-based nanowires probed by Kelvin probe force microscopy. 2009 , 20, 385702	34
974	Charge carrier dynamics in semiconducting mercury cluster anions. 2009 , 80, 048102	9
973	Hybrid solar cells using ZnO nanorods. 2009 ,	
973 972	Hybrid solar cells using ZnO nanorods. 2009, Enhanced photoelectrochemical detection of bioaffinity reactions by vertically oriented au nanobranches complexed with a biotinylated polythiophene derivative. 2009, 9, 1094-107	13
	Enhanced photoelectrochemical detection of bioaffinity reactions by vertically oriented au	13 40
972	Enhanced photoelectrochemical detection of bioaffinity reactions by vertically oriented au nanobranches complexed with a biotinylated polythiophene derivative. 2009 , 9, 1094-107 Heterojunction topology versus fill factor correlations in novel hybrid small-molecular/polymeric	
972	Enhanced photoelectrochemical detection of bioaffinity reactions by vertically oriented au nanobranches complexed with a biotinylated polythiophene derivative. 2009 , 9, 1094-107 Heterojunction topology versus fill factor correlations in novel hybrid small-molecular/polymeric solar cells. 2009 , 130, 094703 Electrochemically intercalated indium-tin-oxide/poly(3-hexylthiophene): A solid-state	40
972 971 970	Enhanced photoelectrochemical detection of bioaffinity reactions by vertically oriented au nanobranches complexed with a biotinylated polythiophene derivative. 2009 , 9, 1094-107 Heterojunction topology versus fill factor correlations in novel hybrid small-molecular/polymeric solar cells. 2009 , 130, 094703 Electrochemically intercalated indium-tin-oxide/poly(3-hexylthiophene): A solid-state heterojunction solar cell. 2009 , 130, 111101 Exciton dissociation and photovoltaic effect in germanium nanocrystals and poly(3-hexylthiophene)	40 5
972 971 970 969	Enhanced photoelectrochemical detection of bioaffinity reactions by vertically oriented au nanobranches complexed with a biotinylated polythiophene derivative. 2009 , 9, 1094-107 Heterojunction topology versus fill factor correlations in novel hybrid small-molecular/polymeric solar cells. 2009 , 130, 094703 Electrochemically intercalated indium-tin-oxide/poly(3-hexylthiophene): A solid-state heterojunction solar cell. 2009 , 130, 111101 Exciton dissociation and photovoltaic effect in germanium nanocrystals and poly(3-hexylthiophene) composites. 2009 , 94, 233504	40 5 33
972 971 970 969 968	Enhanced photoelectrochemical detection of bioaffinity reactions by vertically oriented au nanobranches complexed with a biotinylated polythiophene derivative. 2009, 9, 1094-107 Heterojunction topology versus fill factor correlations in novel hybrid small-molecular/polymeric solar cells. 2009, 130, 094703 Electrochemically intercalated indium-tin-oxide/poly(3-hexylthiophene): A solid-state heterojunction solar cell. 2009, 130, 111101 Exciton dissociation and photovoltaic effect in germanium nanocrystals and poly(3-hexylthiophene) composites. 2009, 94, 233504 Universal scaling of semiconductor nanowires bandgap. 2009, 95, 073106	40 5 33 23

964	Superstructures of PbS nanocrystals in a conjugated polymer and the aligning role of oxidation. 2009 , 20, 445608	10
963	Self-Assembly of PPV/CdTe Nanocrystal Complex for Photovoltaic Device. 2009 , 79-82, 485-488	
962	Synthesis of ternary and quaternary CuInxGa1 $\mbox{IISe2}$ (0 $\mbox{\it lk}$ $\mbox{\it li}$) semiconductor nanocrystals. 2009 , 11, 1961-1964	21
961	Synthesis and characterization of electrochemically deposited nanocrystalline CdTe thin films. 2009 , 116, 261-268	24
960	Synthesis and photoluminescence properties of MgAl2O4:Mn2+ hexagonal nanoplates. 2009 , 44, 106-109	11
959	Semiconductor/metal nanocomposites formed by in situ reduction method in multilayer thin films. 2009 , 44, 30-34	2
958	Controlled hydrothermal synthesis of VO2(B) nanobelts. 2009 , 63, 15-18	45
957	Synthesis and characterization of silicon nanowires using tin catalyst for solar cells application. 2009 , 63, 777-779	54
956	Preparation of size-tunable, highly monodisperse particles by self-assembly of N-phthaloylchitosan-g-polycaprolactone molecular bottle brushes. 2009 , 63, 1416-1418	8
955	Polymer Photovoltaic Cells Based on Solution-Processable Graphene and P3HT. 2009 , 19, 894-904	437
954	Photoelectrochemical Study of Nanostructured ZnO Thin Films for Hydrogen Generation from Water Splitting. 2009 , 19, 1849-1856	389
953	Compact Inverse-Opal Electrode Using Non-Aggregated TiO2 Nanoparticles for Dye-Sensitized Solar Cells. 2009 , 19, 1093-1099	184
952	Photovoltaics Based on Hybridization of Effective Dye-Sensitized Titanium Oxide and Hole-Conductive Polymer P3HT. 2009 , 19, 2481-2485	119
951	Perfluorinated Subphthalocyanine as a New Acceptor Material in a Small-Molecule Bilayer Organic Solar Cell. 2009 , 19, 3435-3439	137
950	Effect of Alkyl Side-Chain Length on Photovoltaic Properties of Poly(3-alkylthiophene)/PCBM Bulk Heterojunctions. 2009 , 19, 3300-3306	103
949	Photo-induced Charge Transfer and Relaxation of Persistent Charge Carriers in Polymer/Nanocrystal Composites for Applications in Hybrid Solar Cells. 2009 , 19, 3788-3795	95
948	Facile Synthesis of Fe2O3 Nanocrystals without Fe(CO)5 Precursor and One-Pot Synthesis of Highly Fluorescent Fe2O3[IdSe Nanocomposites. 2009 , 21, 869-873	53
947	Enhanced Photocurrents Generated by Supramolecular &!hyphen;Relay/CdS-Nanoparticle/ Electron-Donor Structures on Gold Electrodes. 2009 , 21, 716-720	12

946	Solution-Processable Near-IR Photodetectors Based on Electron Transfer from PbS Nanocrystals to Fullerene Derivatives. 2009 , 21, 683-687	106
945	Highly Efficient Green-Light-Emitting Diodes Based on CdSe@ZnS Quantum Dots with a Chemical-Composition Gradient. 2009 , 21, 1690-1694	236
944	Solution Processing of Chalcogenide Semiconductors via Dimensional Reduction. 2009 , 21, 3141-3158	190
943	Intramolecular DonorAcceptor Regioregular Poly(hexylphenanthrenyl-imidazole thiophene) Exhibits Enhanced Hole Mobility for Heterojunction Solar Cell Applications. 2009 , 21, 2093-2097	88
942	Highly Efficient Nanoporous TiO2-Polythiophene Hybrid Solar Cells Based on Interfacial Modification Using a Metal-Free Organic Dye. 2009 , 21, 994-1000	234
941	Arrays of Parallel Connected Coaxial Multiwall-Carbon- NanotubeAmorphous-Silicon Solar Cells. 2009 , 21, 3919-3923	66
940	Improved Photovoltaic Performance of Heterostructured Tetrapod-Shaped CdSe/CdTe Nanocrystals Using C60 Interlayer. 2009 , 21, 4461-4466	55
939	Reversible Storage of Lithium in a Rambutan-Like Tintarbon Electrode. <i>Angewandte Chemie</i> , 2009 , 121, 1688-1691	27
938	Cobalt Growth on the Tips of CdSe Nanorods. <i>Angewandte Chemie</i> , 2009 , 121, 1846-1849 3.6	21
937	A synthetic method for transition-metal chalcogenide nanocrystals. 2009 , 15, 1870-5	55
936	Nucleation and growth of CeF(3) and NaCeF(4) nanocrystals. 2009, 15, 2512-7	36
935	Self-assembly of Mn-doped ZnS quantum dots/octa(3-aminopropyl)octasilsequioxane octahydrochloride nanohybrids for optosensing DNA. 2009 , 15, 5436-40	100
934	Size dependence of molar absorption coefficients of CdSe semiconductor quantum rods. 2009 , 10, 1028-31	45
933	One-pot fabrication of high-quality InP/ZnS (core/shell) quantum dots and their application to cellular imaging. 2009 , 10, 1466-70	71
932	Brightening, blinking, bluing and bleaching in the life of a quantum dot: friend or foe?. 2009, 10, 2174-91	134
931	Oligothiophene self-assembly on the surface of ZnO nanorods: toward coaxial p-n hybrid heterojunctions. 2009 , 10, 2465-70	22
930	Stable blue- and green-emitting zinc oxide from ionic liquid crystal precursors. 2009 , 10, 3201-3	23
929	Overview of Strategies for the CVD of Organic Films and Functional Polymer Layers. 2009 , 15, 77-90	72

928	Tm3+-Doped Y2O3 Nanocrystals: Rapid Hydrothermal Synthesis and Luminescence. 2009 , 2009, 4441-44	145	15
927	Large-Scale Oriented Assembly of Nanoparticles in Diblock Copolymer Templates under Electric Fields. 2009 , 210, 1003-1010		12
926	Thin Film Instabilities in Blends under Cylindrical Confinement. 2009 , 30, 377-83		50
925	Decorating polypyrrole nanotubes with au nanoparticles by an in situ reduction process. 2009 , 30, 936-4	0	60
924	Well-Organized CdS/C(60) in Block Copolymer Micellar Cores. 2009 , 30, 976-80		15
923	Stepwise Self-Assembly of P3HT/CdSe Hybrid Nanowires with Enhanced Photoconductivity. 2009 , 30, 1419-23		51
922	Templated organic and hybrid materials for optoelectronic applications. 2009, 30, 1146-66		81
921	Liquid crystalline ordering and charge transport in semiconducting materials. 2009, 30, 1179-202		321
920	Hetero-telechelic dye-labeled polymer for nanoparticle decoration. 2009 , 30, 1274-8		28
919	New preparation of structurally symmetric, biodegradable poly(L-lactide) disulfides and PLLA-stabilized, photoluminescent CdSe quantum dots. 2009 , 9, 551-62		19
918	Large-Scale Soft Colloidal Template Synthesis of 1.4 nm Thick CdSe Nanosheets. <i>Angewandte Chemie</i> , 2009 , 121, 6993-6996	3.6	53
917	Optical Fiber/Nanowire Hybrid Structures for Efficient Three-Dimensional Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2009 , 121, 9143-9147	3.6	53
916	Reversible storage of lithium in a rambutan-like tin-carbon electrode. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1660-3	16.4	157
915	Cobalt growth on the tips of CdSe nanorods. Angewandte Chemie - International Edition, 2009, 48, 1814-	716.4	89
914	Large-scale soft colloidal template synthesis of 1.4 nm thick CdSe nanosheets. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6861-4	16.4	281
913	Optical fiber/nanowire hybrid structures for efficient three-dimensional dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8981-5	16.4	207
912	Nanocomposites of styrene B utadiene rubber and synthetic anatase obtained by a colloidal route and their photooxidation. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 1898-1904	2.9	5
911	Electrochemical synthesis of copper sulfide nanoparticles. 2009 , 167, 247-251		16

910	Investigating biological processes at the single molecule level using luminescent quantum dots. 2009 , 37, 1934-59	56
909	Controllable fabrication of nanocrystal-polymer hybrids via the catalytic chain transfer polymerization process. 2009 , 287, 829-837	8
908	Microwave chemical route to self-assembled quasi-spherical Cu2O microarchitectures and their gas-sensing properties. 2009 , 143, 253-260	52
907	Hybrid poly (3-hexylthiophene)/titanium dioxide nanorods material for solar cell applications. 2009 , 93, 952-957	31
906	Fabrication of organic photovoltaic cells with double-layer ZnO structure. 2009 , 93, 1562-1567	19
905	Efficient hybrid bulk heterojunction solar cells based on phenylenevinylene copolymer, perylene bisimide and TiO2. 2009 , 93, 1792-1800	27
904	Biopolymer-protected CdSe nanoparticles. 2009 , 344, 2383-7	21
903	Adsorption of sulfur onto a surface of silver nanoparticles stabilized with sago starch biopolymer. 2009 , 73, 30-5	53
902	Kelvin Probe Force Microscopy study on hybrid P3HT:titanium dioxide nanorod materials. 2009 , 479, 105-108	14
901	Two-level self-assembly from nanowires to microrods based on a heterotriangulene derivative. 2009 , 479, 117-119	13
900	Relation between structure and mechanical properties (elastoplastic and fracture behavior) of hybrid organicIhorganic coating. 2009 , 44, 2752-2758	18
899	Photoluminescence characteristics of synthesized copper doped Cd1½ Zn x S quantum dots. Journal of Materials Science: Materials in Electronics, 2009, 20, 1178-1181	6
898	Effects of electron tunneling and nonresonance quenching of photoluminescence in semiconducting CdSe/ZnS AND CdSe nanocrystals by porphyrin molecules in joint complexes. 2009 , 45, 23-34	16
897	Self-assembly drives quantum dot photoluminescence. 2009 , 19, 311-6	10
896	Electrochromic Solid-State Devices Using Organic-Metallic Hybrid Polymers. 2009, 19, 74-78	48
895	Aggregation-induced Emission of Silole Molecules and Polymers: Fundamental and Applications. 2009 , 19, 249-285	282
894	A simple solution route to control synthesis of Fe3O4 nanomaterials at low temperature and their magnetic properties. 2009 , 52, 916-923	1
893	Preparation of Gold Nanoparticles and their Applications in Anisotropic Nanoparticle Synthesis and Bioimaging. 2009 , 4, 79-93	81

892	A convenient method for preparing shape-controlled ZnO nanocrystals in a polyol/water mixture system without surfactants. 2009 , 24, 30-33	7
891	Enhancing Solar Cell Efficiencies through 1-D Nanostructures. 2009 , 4, 1-10	243
890	CdSe Ring- and Tribulus-Shaped Nanocrystals: Controlled Synthesis, Growth Mechanism, and Photoluminescence Properties. 2009 , 4, 437-443	20
889	Effect of ZnCdTe-Alloyed Nanocrystals on Polymer-Fullerene Bulk Heterojunction Solar Cells. 2009 , 4, 674-9	5
888	Crystalline Gaq(3) Nanostructures: Preparation, Thermal Property and Spectroscopy Characterization. 2009 , 4, 820-827	13
887	Shape-Controlled Synthesis of ZnS Nanostructures: A Simple and Rapid Method for One-Dimensional Materials by Plasma. 2009 , 4, 1047-1053	28
886	Emerging technologies to power next generation mobile electronic devices using solar energy. 2009 , 3, 262-288	9
885	Luminescent polynorbornene/quantum dot composite nanorods and nanotubes prepared from AAO membrane templates. 2009 , 17, 995-1002	5
884	Solvothermal fabrication of ZnO nanorods using ethanolic quantum dot precursors. 2009, 206, 711-717	6
883	Different roles of cadmium- and sulfur (selenium)-terminated crystal facets in the formation of a photovoltaic response from hybrid organic/inorganic CdS (CdSe) heterojunctions. 2009 , 206, 2645-2651	7
882	Study of the influence of the Cd:Se precursor ratio during the synthesis of CdSe nanocrystals on the performance of CdSe/P3HT hybrid solar cells. 2009 , 206, NA-NA	1
881	Silicon/organic semiconductor heterojunctions for solar cells. 2009 , 206, 2775-2781	25
880	Novel electronic structure and transport properties of confined disordered carbon layers. 2009 , 246, 1056-1059	
879	Light-emitting diode applications of colloidal CdSe/ZnS quantum dots embedded in TiO2Ithin film. 2009 , 246, 889-892	15
878	Raman investigation of strain effects in CdSe nanorods. 2009 , 246, 2817-2819	8
877	Interface-tailored and nanoengineered polymeric materials for (opto)electronic devices. 2009 , 58, 594-619	25
876	Photoelectrochemical water splitting using dense and aligned TiO2 nanorod arrays. 2009 , 5, 104-11	344
875	Triangular CdS nanocrystals: rational solvothermal synthesis and optical studies. 2009 , 5, 681-4	25

874	Advances in liquid crystalline conjugated polymers. 2009 , 47, 2463-2485	33
873	Polymerization of branched thiophene monomers and optoelectronic properties of materials. 2009 , 47, 3034-3044	9
872	Low band gap copolymers based on thiophene and quinoxaline: Their electronic energy levels and photovoltaic application. 2009 , 47, 3399-3408	37
871	High performance polymer field-effect transistors based on polythiophene derivative with conjugated side chain. 2009 , 47, 5304-5312	13
870	The effect of three-dimensional morphology on the efficiency of hybrid polymer solar cells. 2009 , 8, 818-24	485
869	Small-molecule-directed nanoparticle assembly towards stimuli-responsive nanocomposites. 2009 , 8, 979-85	392
868	Tuning the optical and electronic properties of colloidal nanocrystals by lattice strain. 2009, 4, 56-63	611
867	Electrochromatic carbon nanotube/polydiacetylene nanocomposite fibres. 2009 , 4, 738-41	294
866	Preparation of copper-doped CdSe nanocrystals. 2009 , 45, 347-351	23
865	Quasi solid state dye sensitized solar cells employing a polymer electrolyte and xanthene dyes. 2009 , 162, 32-39	44
864	Controlled electron injection and transport at materials interfaces in dye sensitized solar cells. 2009 , 63, 81-99	261
863	An optical programming/electrical erasing memory device: Organic thin film transistors incorporating core/shell CdSe@ZnSe quantum dots and poly(3-hexylthiophene). 2009 , 10, 769-774	48
862	Functionalized CdS nanospheres and nanorods. 2009 , 404, 4364-4369	17
861	Synthesis of hybrid solar cells using CdS nanowire array grown on conductive glass substrates. 2009 , 11, 231-234	64
860	The first BiOI-based solar cells. 2009 , 11, 612-615	81
859	Nanorods and nanolipsticks structured ZnO photoelectrode for dye-sensitized solar cells. 2009 , 11, 1756-175	9 17
858	Designer multi-functional comb-polymers for surface engineering of quantum dots on the nanoscale. 2009 , 45, 3-9	29
857	Microstructure, optical and optoelectrical properties of mesoporous nc-TiO2 films by hydrolysis-limited solgel process with different inhibitors. 2009 , 517, 5634-5640	24

856	Synthesis of monodisperse CdS nanowires and their photovoltaic applications. 2009, 517, 6430-6434	25
855	ZnO layers grown by Atomic Layer Deposition: A new material for transparent conductive oxide. 2009 , 518, 1145-1148	81
854	Synthesis of type II CdTe/CdSe heterostructure tetrapod nanocrystals for PV applications. 2009 , 93, 779-782	26
853	Self-Passivating hybrid (organic/inorganic) tandem solar cell. 2009 , 93, 657-661	19
852	Well-aligned single-crystalline silicon nanowire hybrid solar cells on glass. 2009 , 93, 621-624	103
851	Efficient conjugated polymer-ZnSe and -PbSe nanocrystals hybrid photovoltaic cells through full solar spectrum utilization. 2009 , 93, 1208-1213	51
850	Characteristics of vaporliquid grown silicon nanowire solar cells. 2009, 93, 1388-1393	180
849	Surfactant-free CdTe nanoparticles mixed MEH-PPV hybrid solar cell deposited by spin coating technique. 2009 , 93, 1482-1487	65
848	Optical characterization of ZnO nanoparticles capped with various surfactants. 2009 , 129, 434-438	98
847	Shell-dependent hole transport in highly luminescent CdSe-core CdS/ZnCdS/ZnS multi-shell nanocrystals. 2009 , 129, 1410-1414	6
846	Opportunities in dilute nitride IIII semiconductors quantum confined pl solar cells for single carrier resonant tunneling. 2009 , 40, 421-423	6
845	Grain size effect of nanocrystalline ZnO on characteristics of dye-sensitized solar cells. 2009 , 40, 50-52	4
844	Ultraviolet-illuminated fluoropolymer indium l in-oxide buffer layers for improved power conversion in organic photovoltaics. 2009 , 10, 1178-1181	15
843	High-resolution patterned nanoparticulate Ag electrodes toward all printed organic thin film transistors. 2009 , 10, 1102-1108	23
842	Effect of chemical structure of interface modifier of TiO2 on photovoltaic properties of poly(3-hexylthiophene)/TiO2 layered solar cells. 2009 , 329, 182-7	31
841	Synthesis of poly(3-hexylthiophene) grafted TiO2 nanotube composite. 2009 , 333, 128-34	42
840	Quasi-one dimensional metal oxide semiconductors: Preparation, characterization and application as chemical sensors. 2009 , 54, 1-67	509
839	Thermal decomposition of [bis(salicylaldehydato)cadmium(II)] to CdS nanocrystals. 2009 , 28, 3975-3978	10

838	The phase behaviors of cylindrical diblock copolymers and rigid nanorods' mixtures. 2009 , 50, 3403-3410	29
837	Structural and optical characterization of CdS nanoparticles prepared by chemical precipitation method. 2009 , 70, 1074-1079	127
836	Bio-inspired multi-scale structures in dye-sensitized solar cell. 2009 , 10, 149-158	26
835	Solid-state hybrid photovoltaic cells with a novel redox polymer and nanostructured inorganic semiconductors. 2009 , 194, 1142-1149	13
834	Synthesis of uniform CdS nanowires in high yield and its single nanowire electrical property. 2009 , 182, 2941-2945	45
833	Designer polymerquantum dot architectures. 2009 , 34, 393-430	2 90
832	Ultraviolet photodetectors based on ZnO nanoparticles. <i>Ceramics International</i> , 2009 , 35, 2797-2801 5.1	138
831	Solar cells from colloidal nanocrystals: Fundamentals, materials, devices, and economics. 2009 , 14, 245-259	292
830	Hybrid polymer solar cells: From the role colloid science could play in bringing deployment closer to a study of factors affecting the stability of non-aqueous ZnO dispersions. <i>Colloids and Surfaces A:</i> Physicochemical and Engineering Aspects, 2009 , 343, 50-56	17
829	In situ probe nanophase transition in nanocomposite using thermal AFM. 2009 , 69, 1180-1186	10
828	Enhancing light absorption and carrier transport of P3HT by doping multi-wall carbon nanotubes. 2009 , 468, 64-68	85
827	A highly effective method for synthesizing hybrid PtttdSe nanocomposite. 2009 , 256, 1526-1529	
826	PPV/PVA/ZnO nanocomposite prepared by complex precursor method and its photovoltaic application. 2009 , 9, 189-194	53
825	Surface states in the photoionization of high-quality CdSe core/shell nanocrystals. <i>ACS Nano</i> , 2009 , 3, 1267-73	62
824	Development of new semiconducting polymers for high performance solar cells. 2009, 131, 56-7	853
823	Controlled Synthesis of Hydrogen Titanate B olyaniline Composite Nanowires and Their Resistance T emperature Characteristics. 2009 , 113, 7610-7615	40
822	Direct synthesis of CdSe nanoparticles in poly(3-hexylthiophene). 2009, 131, 17726-7	58
821	High-performance piezoelectric gate diode of a single polar-surface dominated ZnO nanobelt. 2009 , 20, 125201	48

820	Blue luminescence and superstructures from magic size clusters of CdSe. 2009 , 9, 514-8	76
819	Synthesis of nickel hierarchical microstructures by a simple hydrothermal route. 2009 , 5, 123-126	3
818	Re-examination of the Size-Dependent Absorption Properties of CdSe Quantum Dots. 2009 , 113, 19468-1947	'4 445
817	Multifunctional 3D nanoarchitectures for energy storage and conversion. 2009 , 38, 226-52	684
816	Synthesis of Extremely Small CdSe and Bright Blue Luminescent CdSe/ZnS Nanoparticles by a Prefocused Hot-Injection Approach. 2009 , 21, 1743-1749	55
815	Organic nanomaterials: morphological control for charge stabilization and charge transport. 2009 , 4, 806-23	21
814	Identifying Optimal Inorganic Nanomaterials for Hybrid Solar Cells. 2009 , 113, 18968-18972	29
813	Non-Injection and Low-Temperature Approach to Colloidal Photoluminescent PbS Nanocrystals with Narrow Bandwidth. 2009 , 113, 2301-2308	82
812	Structural and Optical Properties of PbS Nanoparticles Synthesized by the Radiolytic Method. 2009 , 113, 8050-8057	48
811	Triarylamine: a promising core unit for efficient photovoltaic materials. 2009 , 5483-95	670
810	Effect of a magnetic field on the optical properties of nonmagnetic nanorods in a dielectric matrix. 2009 , 11, 125001	3
809	Identification of different donor-acceptor structures via FEster Resonance Energy Transfer (FRET) in quantum-dot-perylene bisimide assemblies. 2009 , 10, 5239-56	25
808	Dye-Sensitized and Bulk-Heterojunctions Solar Cells: TiO2 Nanotube Arrays as a Base Material. 2009 , 217-283	
807	Fabrication of ZnO/CdS core/shell nanowire arrays for efficient solar energy conversion. 2009 , 19, 5945	374
806	Solar cells based on junctions between colloidal PbSe nanocrystals and thin ZnO films. <i>ACS Nano</i> , 2009 , 3, 3638-48	235
805	Modern photoelectric and photochemical methods of solar power conversion. 2009 , 79, 2543-2555	1
804	Synthesis of CuInSe2 and CuGaSe2 hexagonal microplates in oleic acid and oleylamine mixture. 2009 , 71, 375-379	5
803	Semiconductor nanowhiskers: Synthesis, properties, and applications. 2009 , 43, 1539-1584	146

802	Microwave-assisted synthesis of Sb2Se3 submicron rods, compared with those of Bi2Te3 and Sb2Te3. 2009 , 20, 085604	29
801	Rapid synthesis of core/shell ZnS:Mn/Si nanotetrapods by a catalyst-free thermal evaporation route. <i>ACS Applied Materials & amp; Interfaces</i> , 2009 , 1, 1420-6	9
800	Chemical Tuning of the Electronic Properties of Nanostructured Semiconductor Films Formed through Surfactant Templating of Zintl Cluster. 2009 , 113, 7697-7705	22
799	Mulberry-likelCdSe Nanoclusters Anchored on TiO2 Nanotube Arrays: A Novel Architecture with Remarkable Photoelectrochemical Performance. 2009 , 21, 3090-3095	100
798	Tuning of the Dispersion of Ligand-Free ZnO Quantum Dots in Polymer Matrices with Exfoliated Nanoplatelets. 2009 , 42, 1665-1671	20
797	Poly(3-hexylthiophene)/ZnO hybrid pn junctions for microelectronics applications. 2009 , 94, 143501	69
796	Self-Assembled Fernlike Microstructures of Polyhedral Oligomeric Silsesquioxane/Gold Nanoparticle Hybrids. 2009 , 113, 3517-3524	33
795	Organic-inorganic hybrid inverted photodiode with planar heterojunction for achieving low dark current and high detectivity. 2016 , 27, 095203	9
794	Inverted hybrid CdSe-polymer solar cells adopting PEDOT:PSS/MoO3 as dual hole transport layers. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3463-71	13
793	Orientational Control of Polymer Grafted Nanorods. 2016 , 49, 1111-1119	13
79 ²	Highly efficient moisture-enabled electricity generation from graphene oxide frameworks. 2016 , 9, 912-916	181
791	Colloidal Nanoplatelet/Conducting Polymer Hybrids: Excitonic and Material Properties. 2016 , 120, 3573-3582	10
790	Synthesis and characterization of silicon nanorod on n-type porous silicon. 2016 , 55, 2143-8	1
789	Formation of square prism-shaped poly(o-phenylenediamine) fibers triggered by high ionic strength. 2016 , 6, 21895-21899	4
788	A convenient synthesis of cadmium chalcogenide quantum dots from cadmium acetate and bis(diphenylphosphino)methane monosulfide and Belenide or 1,4-bis(diphenylphosphino)butane monoselenide. 2016 , 191, 800-802	
787	Preparation of CuS with Flower-Like Morphology by Water/Ethanol Solvothermal Synthesis. 2016 , 46, 1415-1421	1
786	Synthesis and characterization of tin disulfide nanocrystals for hybrid bulk hetero-junction solar cell applications. 2016 , 12, 308-314	10
785	Iodide-Passivated Colloidal PbS Nanocrystals Leading to Highly Efficient Polymer:Nanocrystal Hybrid Solar Cells. 2016 , 28, 1897-1906	63

Hydrophobic CdSe and CdTe quantum dots: shell coating, shape control, and self-assembly. 2016, 6, 25656-25661 784 Flexographic printing of ultra-thin semiconductor polymer layers. 2016, 3, 015001 783 15 Mechanochemically synthesized nanocrystalline ternary CuInSe2 chalcogenide semiconductor. 782 12 **2016**, 173, 182-186 More than Conformational I wisting for Coplanarity Molecular Strategies for Designing 781 209 High-Efficiency Nonfullerene Organic Solar Cells. 2016, 28, 1948-1964 In Situ Growth of In2S3 Nanorods in Poly(3-Hexylthiophene) Hybrid Films. 2016, 45, 2266-2273 780 4 Interface degradation of perovskite solar cells and its modification using an annealing-free TiO2 84 779 NPs layer. 2016, 30, 30-35 Formation and decay of charge carriers in aggregate nanofibers consisting of 778 poly(3-hexylthiophene)-coated gold nanoparticles. *Physical Chemistry Chemical Physics*, **2016**, 18, 2087-9 $\mathring{g}^{.6}$ 6 Block Copolymer Nanocomposites with High Refractive Index Contrast for One-Step Photonics. ACS 16.7 92 Nano, 2016, 10, 1216-23 Microwave-assisted synthesis of Cd(OH)2/CdO nanorods: Effect of irradiation time. 2016, 90, 117-123 6 776 Controllable length and density ZnO@CdS core/shell as electron transport layer for optimization of 2.1 775 organic solar cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 3557-3564 Fabrication of CdSe sensitized SnO2 nanofiber quantum dot solar cells. 2016, 41, 370-377 774 12 Enhanced performance of P3HT/(PCBM:ZnO:TiO 2) blend based hybrid organic solar cells. 2016, 75, 35-40 773 Hybrid nanomaterials through molecular and atomic layer deposition: Top down, bottom up, and 772 123 in-between approaches to new materials. 2016, 75, 1-37 Optical techniques for probing the excited state dynamics of quantum dot solids. 2016, 471, 59-68 771 9 Embedded nanowire window layers for enhanced quantum efficiency in window-absorber type 770 12 solar cells like CdS/CdTe. 2016, 144, 641-651 769 RETRACTED ARTICLE: One-step synthesis of size-controlled CZTS quantum dots. 2017, 7, 499-499 3 Investigation of Microstructure, Morphology, Mechanical, and Dielectric Properties of PVA/PbO 768 40 Nanocomposites. 2017, 36, 352-361

Phase transition of a symmetric diblock copolymer induced by nanorods with different surface

chemistry. 2017, 146, 024902

766	Shape-controlled synthesis of Cu2O nanocrystals by one pot solution-phase reduction process. 2017 , 671, 154-160		13	
765	Charge Transfer-Induced State Filling in CdSe Quantum DotAlizarin Complexes. 2017, 121, 2613-2619		12	
764	Improved photoresponse of a-axis GaN microwire/p-polymer hybrid photosensor by the piezo-phototronic effect. <i>Nano Energy</i> , 2017 , 33, 272-279	17.1	28	
763	Insight into the Dispersion Mechanism of Polymer-Grafted Nanorods in Polymer Nanocomposites: A Molecular Dynamics Simulation Study. 2017 , 50, 687-699		23	
762	A new view for nanoparticle assemblies: from crystalline to binary cooperative complementarity. 2017 , 46, 1483-1509		62	
761	Materials aspects of semiconductor nanocrystals for optoelectronic applications. 2017 , 4, 155-205		59	
760	Aqueous-Processed Polymer/Nanocrystal Hybrid Solar Cells with Efficiency of 5.64%: The Impact of Device Structure, Polymer Content, and Film Thickness. 2017 , 121, 2025-2034		12	
759	Finite size and length effects on bandgap of CdSe nanorods. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 5513-5518	3.6	2	
758	Charge storage ability of the gold nanoparticles: Towards the performance of a supercapacitor. 2017 , 424, 151-156		11	
757	Constructing Post-Permeation Method to Fabricate Polymer/Nanocrystals Hybrid Solar Cells with PCE Exceeding 6. 2017 , 13, 1603771		15	
756	Influence of functionalized side chains of polythiophene diblock copolymers on the performance of CdSe quantum dot hybrid solar cells. 2017 , 5, 2473-2477		7	
755	Continuous Flow Synthesis of Anisotropic Cadmium Selenide and Zinc Selenide Nanoparticles. 2017 , 3, 204-211		15	
754	Reduced Graphene Oxide Zinc Sulfide Composite for Solar Light Responsive Photo Current Generation and Photocatalytic 4-Nitrophenol Reduction. 2017 , 2, 537-545		36	
753	Highly Conformal Ni Micromesh as a Current Collecting Front Electrode for Reduced Cost Si Solar Cell. <i>ACS Applied Materials & Samp; Interfaces</i> , 2017 , 9, 8634-8640	9.5	18	
752	Identification and visualization of the intellectual structure and the main research lines in nanoscience and nanotechnology at the worldwide level. 2017 , 19, 62		19	
751	Synthesis and Optical Characterization of Hybrid OrganicIhorganic Heterofluorene Polymers. 2017 , 50, 2338-2343		27	
750	Hybrid detection of target sequence DNA based on phosphorescence resonance energy transfer. 2017 , 94, 263-270		19	
749	Exciton Separation in CdS Supraparticles upon Conjugation with Graphene Sheets. 2017 , 121, 6581-6588	8	19	

748	Recent development and understanding of polymerfianocrystal hybrid solar cells. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1502-1513	7.8	17
747	Side-chain modulation of dithienofluorene-based copolymers to achieve high field-effect mobilities. 2017 , 8, 2942-2951		38
746	A DNA probe based on phosphorescent resonance energy transfer for detection of transgenic 35S promoter DNA. 2017 , 91, 560-565		22
745	The photovoltaic effect in a [001] orientated ZnO thin film and its physical mechanism. 2017 , 7, 9596-96	504	6
744	Copper light-catching electrodes for organic photovoltaics. 2017 , 1, 859-865		8
743	Unraveling electron and hole relaxation dynamics in colloidal CdTe nanorods: a two-dimensional electronic spectroscopy study. 2017 ,		
742	Bismuth-based ternary nanowires as efficient electrocatalysts for dye sensitized solar cells. 2017 , 53, 5445-5448		13
741	Temperature effect on polaron recombination in conjugated polymers. 2017 , 47, 200-210		2
740	Interfacial Surface Modification via Nanoimprinting to Increase Open-Circuit Voltage of Organic Solar Cells. 2017 , 46, 4989-4998		5
739	Self-Assembled Amphiphilic Block Copolymers/CdTe Nanocrystals for Efficient Aqueous-Processed Hybrid Solar Cells. <i>ACS Applied Materials & District Selfont</i> , 9, 17942-17948	9.5	25
738	Transparent ZnOPVA binary composite for UV-A photo detector: optical, electrical and thermal properties followed by laser induced fluorescence. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 7190-7203	2.1	14
737	Solution-Based Large-Area Assembly of Coaxial Inorganic-Organic Hybrid Nanowires for Fast Ambipolar Charge Transport. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 16397-16403	9.5	7
736	Effect of thickness on the performance of hybrid solar cells fabricated using surfactant free lead sulfide quantum dots and poly(3-hexylthiophene-2,5-diyl) polymer. 2017 , 631, 180-188		2
735	The effect of differential temperatures on the latent heat in the nucleation of CdSe quantum dots. 2017 , 38, 042004		1
734	Development of InP-based polymer nanocomposites by wet route for optoelectronic devices. 2017 , 295, 985-993		
733	Optical and thermogravimetric analysis of Pb3O4/PVC nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 12108-12114	2.1	29
732	Understanding chemically processed solar cells based on quantum dots. 2017 , 18, 334-350		29
731	Organic and Inorganic Hybrid Solar Cells. 2017 , 1-35		2

730 Organic-Inorganic Hybrid Solar Cells Based on Quantum Dots. **2017**, 65-91

729	Towards high efficiency nanowire solar cells. 2017 , 12, 31-45		112
728	Illumination alters the structure of gels formed from the model optoelectronic material P3HT. 2017 , 108, 313-321		8
727	Nanohybrid Materials in the Development of Solar Energy Applications. 2017 , 147-197		
726	Functionalized self-assembly of colloidal CdX ($X = S$, Se) nanorods on solid substrates for device applications. 2017 , 9, 8066-8079		14
725	Detection of Ultralow Concentrations of Non-emissive Conjugated Polymer Aggregates via Fluorescence Correlation Spectroscopy. 2017 , 121, 5413-5421		9
724	Structural morphological and optical properties of P3HT/CdSe/WS2 ternary composites for hybrid organic/inorganic photovoltaics. 2017 , 52, 9573-9583		
723	Metallopolymers from direct polymerization of functionalized cobalt chalcogenide clusters and thiophene comonomers. 2017 , 8, 3801-3809		1
722	CdS/ZnS core-shell nanocrystal photosensitizers for visible to UV upconversion. 2017, 8, 5488-5496		74
721	Engineering charge transport by heterostructuring solution-processed semiconductors. 2017 , 2,		84
720	Colloidal quantum dots for optoelectronics. 2017 , 5, 13252-13275		107
719	Temperature Dependence and Impedance Characteristics of Hybrid Solar Cells Based on Poly(phenylene vinylene): ZnO Nanoparticles With Added Surfactants. 2017 , 7, 1031-1035		4
718	Improving the performance of the organic solar cell and the inorganic heterojunction devices using monodisperse Fe3O4 nanoparticles. 2017 , 142, 134-143		18
717	Effect of ultraviolet irradiation on poly(3,4-ethylenedioxythiophene) doped with ClO4thin films using electropolymerization. 2017 , 56, 06GJ03		3
716	Hybrid Photovoltaics Ifrom Fundamentals towards Application. <i>Advanced Energy Materials</i> , 2017 , 7, 1700248	21.8	23
715	Hybrid Solar Cells from Aqueous Polymers and Colloidal Nanocrystals. 2017 , 35, 551-561		10
714	Highly efficient Blue-Emitting CdSe-derived Core/Shell Gradient Alloy Quantum Dots with Improved Photoluminescent Quantum Yield and Enhanced Photostability. 2017 , 33, 3711-3719		35
713	A facile room temperature route to ternary Cu7.2S2Se2 compounds and their photovoltaic properties based on elemental copper. 2017 , 193, 267-273		3

712	TiO2 nanoparticles/poly(butylene adipate-co-terephthalate) bionanocomposite films for packaging applications. 2017 , 28, 1699-1706	31
711	Effect of surface texturing processes on the performance of crystalline silicon solar cell. 2017 , 147, 228-231	19
710	Programmable Colloidal Approach to Hierarchical Structures of Methylammonium Lead Bromide Perovskite Nanocrystals with Bright Photoluminescent Properties. 2017 , 29, 3526-3537	32
709	Effect of functionalities on the crystal structures of new zinc(II) dithiocarbamates: a combined anti-leishmanial and thermal decomposition study. 2017 , 19, 2660-2672	17
708	Photovoltaic Devices Based on Colloidal PbX Quantum Dots: Progress and Prospects. 2017, 1, 1600021	33
707	Functionalized Molybdenum Disulfide Nanosheets for 0D-2D Hybrid Nanostructures: Photoinduced Charge Transfer and Enhanced Photoresponse. 2017 , 8, 1729-1738	47
706	Effect of Blend Composition on Bulk Heterojunction Organic Solar Cells: A Review. 2017 , 1, 1700035	26
705	A stable and highly efficient visible-light photocatalyst of TiO2 and heterogeneous carbon coreEhell nanofibers. 2017 , 7, 15330-15336	21
704	Dissecting charge relaxation pathways in CdSe/CdS nanocrystals using femtosecond two-dimensional electronic spectroscopy. 2017 , 9, 4572-4577	7
703	Elucidating the relationship between crystallo-chemistry and optical properties of CIGS nanocrystals. 2017 , 28, 045708	4
702	Simulation of natural dyes adsorbed on TiO2 for photovoltaic applications. 2017 , 142, 215-223	17
701	Metal mono-chalcogenides ZnX and CdX (X = S, Se and Te) monolayers: Chemical bond and optical interband transitions by first principles calculations. 2017 , 381, 663-670	27
700	Aqueous-Processed Polymer/Nanocrystals Hybrid Solar Cells: The Effects of Chlorine on the Synthesis of CdTe Nanocrystals, Crystal Growth, Defect Passivation, Photocarrier Dynamics, and Device Performance. 2017 , 1, 1600020	21
699	Influence of fullerene-based acceptor materials on the performance of indacenodithiophene-cored small molecule bulk heterojunction organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 5006-5013	1
698	Functionalization of carbon nanomaterials for advanced polymer nanocomposites: A comparison study between CNT and graphene. 2017 , 67, 1-47	380
697	Charge-separation enhancement in inverted polymer solar cells by molecular-level triple heterojunction: NiO-np:P3HT:PCBM. 2017 , 28, 035403	2
696	Co-encapsulation of CdSe/ZnS and CeO nanoparticles in waterborne polymer dispersions: enhancement of fluorescence emission under sunlight. <i>Soft Matter</i> , 2017 , 13, 8039-8047	6
695	Progress in electronics and photonics with nanomaterials. 2017 , 146, 304-307	21

694	Dispersion, Phase Separation, and Self-Assembly of Polymer-Grafted Nanorod Composites. 2017 , 50, 8816-8826	8
693	Synthesis, Structural, Optical, Electrical and Thermal Studies of Poly(vinyl alcohol)/CdO Nanocomposite Films. 2017 , 27, 1918-1926	17
692	Broadband Surface-Enhanced Photoluminescence Based on Gold Nanocubic Self-Assembly. 2017 , 5, 1700551	4
691	Exploiting a single intramolecular conformational switching Ni-TPP molecule to probe charge transfer dynamics at the nanoscale on bare Si(100)-2 🗓 . <i>Physical Chemistry Chemical Physics</i> , 2017 , 3.6 19, 28982-28992	2
690	Unraveling the Mechanism Underlying Surface Ligand Passivation of Colloidal Semiconductor Nanocrystals: A Route for Preparing Advanced Hybrid Nanomaterials. 2017 , 29, 8838-8849	14
689	Sustainable antireflection using recoverable nanopattern arrays. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10600-10608	11
688	Hierarchical Multicomponent Nanoheterostructures via Facet-to-Facet Attachment of Anisotropic Semiconductor Nanoparticles. 2017 , 29, 9075-9083	3
687	Hollow optical fiber induced solar cells with optical energy storage and conversion. 2017 , 53, 12233-12235	5
686	Temperature-Directed Assembly of Stacked Toroidal Nanorattles. 2017, 6, 1223-1227	14
685	Electrical transport through self-assembled colloidal nanomaterials and their perspectives. 2017 , 119, 36002	4
684	Surface Coating of Gradient Alloy Quantum Dots with Oxide Layer in White-Light-Emitting Diodes for Display Backlights. 2017 , 33, 13040-13050	7
683	Linear and nonlinear magneto-optical properties of an off-center single dopant in a spherical core/shell quantum dot. 2017 , 524, 64-70	18
682	Orienting the Microstructure Evolution of Copper Phthalocyanine as an Anode Interlayer in Inverted Polymer Solar Cells for High Performance. <i>ACS Applied Materials & Description</i> (2017), 9, 32044-5320	o <i>§</i> 53
681	Detection of tumor marker miRNA21 based on phosphorescent resonance energy transfer of MnIZnS QDs. 2017 , 7, 41063-41069	10
68o	Elucidating the role of surface passivating ligand structural parameters in hole wave function delocalization in semiconductor cluster molecules. 2017 , 9, 14127-14138	10
679	Wurtzite-type CdS nanocrystals: Facile synthesis and photoelectrochemical properties. 2017 , 13, 1-5	4
678	Effect of CdS nanocrystals on charge transport mechanism in poly(3-hexylthiophene). 2017 , 122, 075502	15
677	Controlled Synthesis of CuInS/ZnS Nanocubes and Their Sensitive Photoluminescence Response toward Hydrogen Peroxide. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 32097-32105	13

676	Exciton Dynamics and Formation Mechanism of MEH-PPV Polymer-Based Nanostructures. 2017 , 121, 21062-21072		14
675	Surfactant-free (CdSe and CdSe-CdTe) semiconducting nanoparticle mixed MEH-PPV thin films. 2017 , 4, 086404		1
674	Flexible Photodetectors Based on Novel Functional Materials. 2017, 13, 1701822		185
673	Synthesis and structure of open and closed type iron telluride Latibine cluster compounds. 2017 , 851, 22-29		5
672	Structural, optical, electrochemical and photovoltaic studies of spider web like Silver Indium Diselenide Quantum dots synthesized by ligand mediated colloidal sol-gel approach. <i>Optical Materials</i> , 2017 , 73, 70-76	3.3	15
671	Effect of The Addition of PEG and PVA Polymer for Gel Electrolytes in Dye-Sensitized Solar Cell (DSSC) with Chlorophyll as Dye Sensitizer. 2017 , 214, 012011		1
670	The Effect of Electrical stress under temperature in the characteristics of PV Solar Modules. 2017 , 119, 579-601		6
669	CdSe-CdTe Heterojunction Nanorods: Role of CdTe Segment in Modulating the Charge Transfer Processes. <i>ACS Omega</i> , 2017 , 2, 5150-5158	3.9	12
668	One-Pot Synthesis of Hybrid Conjugated Oligomer-Ag Nanoparticles. ACS Omega, 2017, 2, 5470-5477	3.9	9
667	Spin Unrestricted Nonradiative Relaxation Dynamics of Cobalt-Doped Anatase Nanowire. 2017 , 121, 16110-16125		8
666	Simultaneously Induced Self-Assembly of Poly(3-hexylthiophene) (P3HT) Nanowires and Thin-Film Fabrication via Solution-Floating Method on a Water Substrate. 2017 , 4, 1700342		22
665	Confinement of Semiconductor ZnO Nanoparticles in Block Copolymer Nanostructure. 2017 , 121, 16617	-1662	! 8 8
664	Enhanced Thermochemical Stability of CHNHPbI Perovskite Films on Zinc Oxides via New Precursors and Surface Engineering. <i>ACS Applied Materials & District Materials</i> , 9, 26045-26051	9.5	22
663	Structural investigation of the enhanced electrical, optical and electrochemical properties of MWCNT incorporated Poly [3-hexylthiophene-2,5-diyl] composites. 2017 , 199, 477-484		11
662	L-Cysteine assisted-synthesis of 3D In2S3 for 3D CuInS2 and its application in hybrid solar cells. 2017 , 7, 37578-37587		21
661	Improved performance for polymer solar cells using CTAB-modified MoO3 as an anode buffer layer. 2017 , 171, 72-84		21
660	1,4-Dihydropyrrolo[3,2-b]pyrroles as a Single Component Photoactive Layer: A New Paradigm for Broadband Detection. <i>ACS Applied Materials & Samp; Interfaces</i> , 2017 , 9, 27875-27882	9.5	11
659	2DMaterials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. 2017 , 5, 170025	7	51

658	Quantum-Dot-in-Polymer Composites via Advanced Surface Engineering. 2017, 1, 1700189		20
657	Photoluminescence and photocatalysis of CdSe tetrapods seeded by Au nanoparticles. 2017 , 1149, 626-	631	7
656	Tunable photoluminescence of Cd free AgInS2 quantum dots: Synthesis and application for light emitting diodes. <i>Optical Materials</i> , 2017 , 72, 805-808	3.3	5
655	Uniaxial strain-modulated electronic structures of Cd X (X = S , Se , Te) from first-principles calculations: A comparison between bulk and nanowires. 2017 , 26, 087103		
654	Ultrafast Electron Dynamics in Solar Energy Conversion. 2017 , 117, 10940-11024		202
653	Effect of electronBlectron interaction on polarization and dissociation of the charged oligomer after single-photon absorption. 2017 , 31, 1750256		
652	A solution-processed near-infrared polymer: PbS quantum dot photodetectors. 2017 , 7, 34633-34637		13
651	Hybrid Conjugated PolymerIhorganic Objects: Elaboration of Novel Organic Electronic Materials. 2017 , 241-299		
650	Control of nanoparticle size and amount by using the mesh grid and applying DC-bias to the substrate in silane ICP-CVD process. 2017 , 19, 1		6
649	Sodium-alginate biopolymer as a template for the synthesis of nontoxic red emitting Mn2+-doped CdS nanoparticles. 2017 , 7, 53422-53432		23
648	Nanowires. Springer Handbooks, 2017 , 249-301	1.3	3
647	Colloidal Dual-Diameter and Core-Position-Controlled Core/Shell Cadmium Chalcogenide Nanorods. <i>ACS Nano</i> , 2017 , 11, 12461-12472	16.7	26
646	Investigation of the effect of 2,6-pyridinedimethanol as the cathode buffer layer on the photovoltaic properties. 2017 , 653, 44-49		1
645	Role of Crystal Structure and Chalcogenide Redox Properties on the Oxidative Assembly of Cadmium Chalcogenide Nanocrystals. 2017 , 33, 9434-9443		10
644	Chiral Arrangements of Au Nanoparticles with Prescribed Handedness Templated by Helical Pores in Block Copolymer Films. 2017 , 50, 5293-5300		31
643	Greenish yellow emission from wurtzite structured ZnS:Ce nanophosphor synthesized at low temperature. 2017 , 192, 123-128		9
642	Studies on complex Hand T-stacking features of imidazole and phenyl/p-halophenyl units in series of 5-amino-1-(phenyl/p-halophenyl)imidazole-4-carboxamides and their carbonitrile derivatives: Role of halogens in tuning of conformation. 2017 , 1147, 520-540		6
641	Disclosing the structural, phase transition, elastic and thermodynamic properties of CdSe1⊠Tex(x = 0.0, 0.25, 0.5, 0.75, 1.0) using LDA exchange correlation. 2017 , 7, 2213-2223		3

640	Photovoltaic performance of TCVA-InSe hybrid solar cells based on nanostructure films. 2017 , 160, 335-339	31
639	Study of quasi-solid electrolyte in dye-sensitized solar cells using surfactant as pore-forming materials in TiO2 photoelectrodes. 2017 , 21, 715-724	5
638	Photovoltaics. 2017 , 371-407	1
637	Understanding and Modeling Fिster-type Resonance Energy Transfer (FRET). 2017,	2
636	Nanoscale Strategies for Light Harvesting. 2017 , 117, 712-757	342
635	FEster-type Resonance Energy Transfer (FRET): Applications. 2017 , 1-40	1
634	Vertically aligned ZnCdS nanowire arrays/P3HT heterojunctions for solar cell applications. 2017 , 487, 73-79	11
633	Introduction to the Basic Properties of Luminescent Materials. 2017 , 1-29	1
632	Synthesis, characterization, and photovoltaic properties of TiO2/CdTe core-shell heterostructure for semiconductor-sensitized solar cells (SSSCs). 2017 , 21, 2665-2676	4
631	Microscale Plasmas for Metal and Metal Oxide Nanoparticle Synthesis. 2017, 89-108	
630	Fabrication of strawberry-like nano-CdSe thin films for photoelectrochemistry by selenizing Cd(OH)2 deposits obtained from the anodization of Cd. 2017 , 21, 477-483	2
629	Probing the interaction between 2,2'-bithiophene-5-carboxylic acid and TiO by photoelectron spectroscopy: A joint experimental and theoretical study. 2017 , 147, 244704	1
628	Recent advances of flexible hybrid perovskite solar cells. 2017 , 71, 593-607	14
627	From properties to materials: An efficient and simple approach. 2017 , 147, 234105	11
626	Enhancement of efficiency by embedding ZnS and Mn-doped ZnS nanoparticles in P3HT:PCBM hybrid solid state solar cells. 2017 , 78, 34810	5
625	Synthesis of ZnO Nanocrystals and Application in Inverted Polymer Solar Cells. 2017 , 12, 529	8
624	CdSe nanorod/TiO nanoparticle heterojunctions with enhanced solar- and visible-light photocatalytic activity. 2017 , 8, 2741-2752	15
623	Bulk Heterojunction Solar Cells Based on Blends of Conjugated Polymers with II?VI and IV?VI Inorganic Semiconductor Quantum Dots. <i>Polymers</i> , 2017 , 9, 4.5	33

622	Biopolymer Composites in Photovoltaics and Photodetectors. 2017 , 459-486		13
621	Bulk Heterojunction Solar Cell Devices Prepared with Composites of Conjugated Polymer and Zinc Oxide Nanorods. 2017 , 2017, 1-8		2
620	A Review of Organic Photovoltaic Energy Source and Its Technological Designs. 2017 , 2017, 1-12		14
619	2.6 Virotronics: Viruses as Tools for Functional Nanomaterials Design ?. 2017 , 109-131		
618	Oxidative chemical vapor deposition of polyaniline thin films. 2017, 8, 1266-1276		28
617	Structure-dependent optoelectronic properties of perylene, di-indenoperylene (DIP) isolated molecule and DIP molecular crystal. 2017 , 11, 125		8
616	Impact of side-chain length on the phase structures of P3ATs and P3AT:PCBM films as revealed by SSNMR and FTIR. 2018 , 56, 751-761		7
615	Direct Integration of Red-NIR Emissive Ceramic-like A M X X Metal Cluster Salts in Organic Copolymers Using Supramolecular Interactions. 2018 , 24, 4825-4829		17
614	Self-Powered Temperature-Mapping Sensors Based on Thermo-Magneto-Electric Generator. <i>ACS Applied Materials & District Acros</i> 10, 10796-10803	9.5	17
613	Directed Assembly of Hybrid Nanomaterials and Nanocomposites. 2018 , 30, e1705794		52
612	A combined experimental and theoretical investigation of donor and acceptor interface in efficient aqueous-processed polymer/nanocrystal hybrid solar cells. 2018 , 61, 437-443		6
611	Enhancement of the Optoelectronic Properties of PEDOT: PSSPbS Nanoparticles Composite Thin Films Through Nanoparticles Capping Ligand Exchange. 2018 , 47, 2718-2730		1
610	Graphene/Semiconductor Hybrid Heterostructures for Optoelectronic Device Applications. 2018 , 19, 41-83		124
609	Material challenges for solar cells in the twenty-first century: directions in emerging technologies. 2018 , 19, 336-369		102
608	Sol-gel synthesis of DyCrO and 10% Fe-doped DyCrO nanoparticles with enhanced photocatalytic hydrogen production abilities 2018 , 8, 14258-14267		13
607	Annealing effect of E-beam evaporated TiO2 films and their performance in perovskite solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 360, 109-116	4.7	16
606	Determination of Carrier Lifetimes in Organic-Inorganic Hybrid Solar Cells Based on Sb2S3 by Using the Time-Resolved Photocurrent. 2018 , 72, 709-715		2
605	Low-Temperature Solution-Processed Mg:SnO2 Nanoparticles as an Effective Cathode Interfacial Layer for Inverted Polymer Solar Cell. 2018 , 6, 6702-6710		22

604	Recent advances in the fabrication of graphenelinO heterojunctions for optoelectronic device applications. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3815-3833	7.1	61
603	Optoelectronic and Thermoelectric Properties of Bi2OX2 (X = S, Se, Te) for Solar Cells and Thermoelectric Devices. 2018 , 47, 2513-2518		13
602	Bulk-heterojunction hybrid solar cells with non-toxic, earth abundant stannite phase CuZn2AlS4 nanocrystals. 2018 , 649, 202-209		4
601	Recent progress of colloidal quantum dot based solar cells. 2018 , 27, 018808		11
600	Structural, optical and photovoltaic properties of P3HT and Mn-doped CdS quantum dots based bulk hetrojunction hybrid layers. <i>Optical Materials</i> , 2018 , 78, 132-141	3.3	15
599	Thermal transport in semicrystalline polyethylene by molecular dynamics simulation. 2018 , 123, 015107		27
598	Recent Advances of Flexible Data Storage Devices Based on Organic Nanoscaled Materials. 2018 , 14, 1703126		102
597	Exploring Electronic Structure and Order in Polymers via Single-Particle Microresonator Spectroscopy. 2018 , 18, 1600-1607		18
596	PbSe Nanorod Field-Effect Transistors: Room- and Low-Temperature Performance. 2018 , 4, 1700580		11
595	High-Efficiency Fullerene Solar Cells Enabled by a Spontaneously Formed Mesostructured CuSCN-Nanowire Heterointerface. 2018 , 5, 1700980		15
594	Pathways of Growth of CdSe Nanocrystals from Nucleant (CdSe)34 Clusters. 2018 , 122, 3168-3175		6
593	Possibility to Use Hydrothermally Synthesized CuFeS2 Nanocomposite as an Acceptor in Hybrid Solar Cell. 2018 , 27, 2649-2654		9
592	Functionalization of P3HT-Based Hybrid Materials for Photovoltaic Applications. 2018, 107-177		О
591	Single-Walled Carbon Nanotubes in Solar Cells. 2018 , 376, 4		42
590	Environmentally friendly and earth-abundant colloidal chalcogenide nanocrystals for photovoltaic applications. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 414-445	7.1	28
589	Temperature dependent excited state dynamics in dual emissive CdSe nano-tetrapods. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4200-4207	3.6	6
588	Electroactive biomaterials: Vehicles for controlled delivery of therapeutic agents for drug delivery and tissue regeneration. 2018 , 129, 148-168		77
587	Multiple exciton generation in quantum dot-based solar cells. 2018 , 7, 111-126		37

Silicon Nanocrystal-Based Organic/Inorganic Hybrid Solar Cells. 2018, 177-203 586 7 Structuring Conjugated Polymers and Polyelectrolytes Through Self-Assembly. 2018, 67-114 585 In-situ visualization of solute-driven phase coexistence within individual nanorods. 2018, 9, 1775 584 15 Formation and characterization of one-dimensional ZnS nanowires for ZnS/P3HT hybrid polymer 583 11 solar cells with improved efficiency. 2018, 451, 180-190 Fabrication of InP-pentacene inorganic-organic hybrid heterojunction using MOCVD grown InP for 582 photodetector application. 2018, Direct Contact of Selective Charge Extraction Layers Enables High-Efficiency Molecular 581 189 Photovoltaics. 2018, 2, 1108-1117 Synergistic In Situ Hybrid Synthesis of Highly Crystalline P3HT/ZnO Nanowires at Elevated 580 5 Pressures. 2018, 1, 1930-1941 Investigation of optical and electrical properties of MWCNT/rGO/poly(3-hexylthiophene) ternary 6 composites. 2018, 53, 8151-8160 Evidence of homo-FRET in quantum dot-dye heterostructured assembly. Physical Chemistry 578 3.6 15 Chemical Physics, 2018, 20, 9523-9535 Synthesis of PdS-CdSe@CdS-Au nanorods with asymmetric tips with improved H2 production 11 577 efficiency in water splitting and increased photostability. 2018, 39, 407-412 Influences of donor/acceptor ratio on the optical and electrical properties of the D/A alternating 576 model oligomers: A density functional theory study. 2018, 199, 260-270 Influence of doping of mercury atom(s) on optoelectronic properties of binary cadmium chalcogenides - A density functional theory based investigation with different 9 575 exchange-correlation functionals and including spin-orbit coupling. 2018, 18, 698-716 ZnO/Polytyramine nanocomposite film: Facile electrosynthesis and high performance 6 574 electrocatalytic activity toward methanol oxidation. 2018, 43, 6987-6996 Refining energy sources in winemaking industry by using solar energy as alternatives for fossil 573 44 fuels: A review and perspective. 2018, 88, 278-296 Effects of doping of mercury atom(s) on optoelectronic properties of binary zinc chalcogenides - A 12 572 first principle based theoretical investigation. 2018, 748, 446-463 Limits and possible solutions in quantum dot organic solar cells. 2018, 82, 1551-1564 571 20 Tunable emission properties of core-shell ZnCuInS-ZnS quantum dots with enhanced fluorescence 570 16 intensity. 2018, 34, 942-948 Facile fabrication of CuO-Pb2O3 nanophotocatalyst for efficient degradation of Rose Bengal dye 569 16 under visible light irradiation. 2018, 433, 206-212

568	Hybrid Solar Cells: Effects of the Incorporation of Inorganic Nanoparticles into Bulk Heterojunction Organic Solar Cells. 2018 , 1-68		3
567	Hybrid Organic/Inorganic and Perovskite Solar Cells. 2018 , 187-227		2
566	Nanomaterials for Sustainable Energy Production and Storage: Present Day Applications and Possible Developments. 2018 , 31-72		2
565	Progress in photovoltaic performance of organic/inorganic hybrid solar cell based on optimal resistive Si and solvent modified poly(3,4-ethylenedioxythiophene) poly(styrenesulfonate) junction. 2018 , 26, 145-150		8
564	Formation and investigation of low dimensional super paramagnetic manganese dioxide nano structures. 2018 , 5, 014002		3
563	Delocalization of Lelectrons and trapping action of ZnO nanoparticles in PPY matrix for hybrid solar cell application. 2018 , 1156, 633-644		16
562	A novel strategy to increase separated electronfiole dipoles in commercial Si based solar panel to assist photovoltaic effect. 2018 , 5, 015901		
561	Ultra-small (r1 year) copper oxide quantum dots with wide band gap. 2018 , 113, 600-607		15
560	Vanadium dioxide for energy conservation and energy storage applications: Synthesis and performance improvement. 2018 , 211, 200-217		79
559	Fabrication and optimization of vacuum free hybrid solar cells prepared using composites of zinc oxide nanoparticles and narrow band gap polymer composite. 2018 , 57, 08RC04		
558	Characterization and synthesis of silver nanoparticles embedded in P Ani-PMo 12 Nanocomposites. 2018 , 402, 012172		1
557	Redox-Mediated Quantum Dots as Fluorescence Probe and Their Biological Application. 2018,		
556	Si nanocrystal solution with stability for one year 2018 , 8, 41299-41307		7
555	In Situ Growth of Metal Sulfide Nanocrystals in Poly(3-hexylthiophene): [6,6]-Phenyl C61-Butyric Acid Methyl Ester Films for Inverted Hybrid Solar Cells with Enhanced Photocurrent. 2018 , 13, 184		6
554	Affect The Precipitation Times on The Prepared Nanocystals of CdS by Chemical Bath Deposition. 2018 , 454, 012141		1
553	Heterojunction Area-Controlled Inorganic Nanocrystal Solar Cells Fabricated Using Supra-Quantum Dots. <i>ACS Applied Materials & Dots. ACS ACS ACS ACS ACS ACS ACS ACS ACS ACS</i>	9.5	5
552	Recent advancements in compact layer development for perovskite solar cells. 2018, 4, e00912		14
551	PS/PMMA-CdSe/ZnS Quantum Dots Hybrid Nanofibers for VOCs Sensors. 2018 , 58, 1347-1355		9

550	Synthesis of 3,4-Biaryl-2,5-Dichlorothiophene through Suzuki Cross-Coupling and Theoretical Exploration of Their Potential Applications as Nonlinear Optical Materials. 2018 , 10, 766	2
549	Hybrid materials based on polymer nanocomposites for environmental applications. 2018 , 507-551	1
548	Advances in Colloidal I-III-VI2-Based Semiconductor Quantum Dots toward Tailorable Photofunctional Materials. 2018 , 86, 291-297	5
547	Polymer/Si Heterojunction Hybrid Solar Cells with Rubrene: DMSO Organic Semiconductor Film as an Electron-Selective Contact. 2018 , 122, 23371-23376	7
546	Nanoscale Insight into Performance Loss Mechanisms in P3HT:ZnO Nanorod Solar Cells. 2018 , 1, 6172-6180	3
545	Facile hydrothermal assisted synthesis of time dependent Cu2S thin films for efficient photoelectrochemical application. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 19322-19335	11
544	Insight into the Mechanism of the Ionic Conductivity for Ln-Doped Ceria (Ln = La, Pr, Nd, Pm, Sm, Gd, Tb, Dy, Ho, Er, and Tm) through First-Principles Calculation. 2018 , 57, 12690-12696	18
543	Directed Assembly of Au-Tipped 1D Inorganic Nanostructures via Nanolithographic Docking. <i>ACS Nano</i> , 2018 , 12, 10016-10023	7
542	Ultrafast Dynamics of Charge Transfer and Photochemical Reactions in Solar Energy Conversion. 2018 , 5, 1800221	22
541	Direct Electricity Generation Mediated by Molecular Interactions with Low Dimensional Carbon Materials Mechanistic Perspective. <i>Advanced Energy Materials</i> , 2018 , 8, 1802212	26
540	Structural, morphological and electrical characterisation of rGO-P3HT composite film for photovoltaic applications. 2018 , 9, 181	
539	Opto-Electrical Properties of Composite Materials Based on Two Benzotrithiophene Copolymers and Fullerene Derivatives. 2018 , 2018, 1-9	О
538	Poly-p-phenylenevinylene-g-poly(2-(methacryloyloxy)Ethyl)trimethylammonium chloride (PPV-g-PMETAC): A fluorescent, water-soluble, selective anion sensor. 2018 , 56, 1997-2003	5
537	Dielectric Properties of Photo-Luminescent CdSe/CdS Mono-Shell and CdSe/CdS/ZnS Multi-Shell Nanocrystals Studied by TEM-EELS. 2018 , 7, R167-R174	1
536	Particles and Nanoparticles in Pharmaceutical Products. 2018,	2
535	Interface Engineering Strategies for Fabricating Nanocrystal-Based OrganicIhorganic Nanocomposites. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1376	13
534	Non-injection synthesis of L-shaped wurtzite CullalInB alloyed nanorods and their advantageous application in photocatalytic hydrogen evolution. 2018 , 6, 18649-18659	14
533	Bio-nano: Theranostic at Cellular Level. 2018 , 85-170	1

532	High-Throughput Computational Screening of Vertical 2D van der Waals Heterostructures for High-efficiency Excitonic Solar Cells. <i>ACS Applied Materials & Acs Applied Material</i>	41
531	A small heterobifunctional ligand provides stable and water dispersible core-shell CdSe/ZnS quantum dots (QDs). 2018 , 10, 19720-19732	8
530	Photovoltaics and Nanotechnology as Alternative Energy. <i>Environmental Chemistry for A Sustainable World</i> , 2018 , 211-241	1
529	Synthesis and characterizations of Cu2ZnSnS4 nanoparticles/carbon nanotube composite as an efficient absorber material for solar cell application. 2018 ,	2
528	Facile synthesis of an urchin-like SbS nanostructure with high photocatalytic activity 2018 , 8, 18451-18455	8
527	Phase transition of a diblock copolymer and homopolymer hybrid system induced by different properties of nanorods. 2018 , 27, 058102	2
526	Design of End-to-End Assembly of Side-Grafted Nanorods in a Homopolymer Matrix. 2018 , 51, 4143-4157	16
525	Advanced catalytic performance of amorphous MoS for degradation/reduction of organic pollutants in both individual and simultaneous fashion. 2018 , 160, 290-300	9
524	Engineering interactions in QDs-PCBM blends: a surface chemistry approach. 2018, 10, 11913-11922	8
523	Eliminating light soaking effect of inverted polymer solar cells functionalized with a conjugated macroelectrolyte electron-collecting interlayer. 2018 , 281, 218-226	2
522	Annealing effect on the structural and dielectric properties of hematite nanoparticles. 2018,	5
521	Nanocomposite for Solar Energy Application. 2018 , 20, 90-107	17
520	Influence of organic interface modification layer on the photoelectric properties of ZnO-based hybrid solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 364, 551-557	5
519	Optical thin films containing quantum dots. 2018 , 487-513	1
518	Fabrication of perovskite solar cells with ZnO nanostructures prepared on seedless ITO substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 13864-13871	2
517	Quantum-Dot-Filled Epoxy Nanocomposites With Enhanced Thermal, Mechanical, and Optical Properties. 2018 , 237-267	2
516	ZnO-based inverted hybrid solar cells: Technical adjustment for performance optimization step by step. 2018 , 427, 294-300	5
515	End-Functionalized Semiconducting Polymers as Reagents in the Synthesis of Hybrid II-VI Nanoparticles. 2018 , 34, 9692-9700	5

514	Dynamics of radiolytic formation of CdSe quantum dots in aqueous solution containing different alcohols: A pulse radiolysis study. 2018 , 152, 49-55		5
513	All-conjugated amphiphilic diblock copolymers for improving morphology and thermal stability of polymer/nanocrystals hybrid solar cells. 2018 , 12, 225-238		2
512	Current Trends in Industrial Scale Synthesis of Quantum Dots and Its Application in Electronics. 2018 , 381-385		3
511	Synthesis of Nanoparticles. 2018 , 392-429		8
510	Safety Concerns of Industrial Engineered Nanomaterials. 2018, 1063-1072		
509	Organic Nanostructures by Molecular Layer Epitaxy: A Tutorial. 2018 , 93-116		
508	Au@CdSe heteroepitaxial nanorods: An example of metal nanorods fully covered by a semiconductor shell with strong photo-induced interfacial charge transfer effects. 2018 , 532, 143-152		10
507	In situ synthesis and macroscale alignment of CsPbBr perovskite nanorods in a polymer matrix. 2018 , 10, 15436-15441		56
506	Solar Cells Based on Sol-Gel Films. 2018 , 2555-2572		
505	Recent theoretical progress in the organic/metal-organic sensitizers as the free dyes, dye/TiO2 and dye/electrolyte systems; Structural modifications and solvent effects on their performance. 2018 , 94, 609-655		20
504	Ionic columnar clustomesogens: associations between anionic hexanuclear rhenium clusters and liquid crystalline triphenylene tethered imidazoliums. <i>Dalton Transactions</i> , 2018 , 47, 10884-10896	4.3	10
503	Lord of The Crowns: A New Precious in the Kingdom of Clustomesogens. <i>Angewandte Chemie</i> , 2018 , 130, 11866-11870	3.6	2
502	Thermolysis of Metal Chelates in Polymer Matrices. 2018 , 425-458		
501	Lord of The Crowns: A New Precious in the Kingdom of Clustomesogens. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11692-11696	16.4	12
500	Hole Transport Behaviour of Various Polymers and Their Application to Perovskite-Sensitized Solid-State Solar Cells. 2018 , 2018, 1-6		4
499	How Implementation of Entropy in Driving Structural Ordering of Nanoparticles Relates to Assembly Kinetics: Insight into Reaction-Induced Interfacial Assembly of Janus Nanoparticles. 2018 , 34, 9477-9488		11
498	Shape control in the synthesis of colloidal semiconductor nanocrystals. 2018, 37-54		4
497	Effect of Sb2S3 micro-rod incorporation on the polymerization of 3-hexylthiophene. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 15715-15725	2.1	

496	Distribution of the Number of Polymer Chains Grafted on Nanoparticles Fabricated by Grafting-to and Grafting-from Procedures. 2018 , 51, 3758-3766	17
495	Performance of dye-sensitized solar cells based on natural dyes. 2018 , 50, 1	9
494	Investigation of trapping levels in p-type Zn3P2 nanowires using transport and optical properties. 2018 , 112, 193103	8
493	Influence of polaron doping and concentration dependent FRET on luminescence of PAni-PMMA blends for application in PLEDs. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 23055-23071	10
492	Sb2S3/Sb2O3 modified TiO2 photoanode for photocathodic protection of 304 stainless steel under visible light. 2018 , 462, 155-163	23
491	Probing charge transfer dynamics in a single iron tetraphenylporphyrin dyad adsorbed on an insulating surface. 2018 , 10, 17603-17616	5
490	The luminescence regulation effect of Na+ on the Yb3+/Er3+ co-doped Y2O3 up-conversion films. 2018 , 203, 16-25	12
489	Correlating the nanoparticle size dependent refractive index of ZnO optical spacer layer and the efficiency of hybrid solar cell through optical modelling. 2018 , 660, 558-563	5
488	Structure-function study of poly(sulfobetaine 3,4-ethylenedioxythiophene) (PSBEDOT) and its derivatives. 2018 , 75, 161-170	5
487	Preparation of Sb2S3 nanocrystals modified TiO2 dendritic structure with nanotubes for hybrid solar cell. 2018 , 5, 065903	3
486	Thermoelectric properties and thermal tolerance of indium tin oxide nanowires. 2018, 29, 364001	9
485	Polymer-grafted nanoparticles prepared via a grafting-from strategy: a computer simulation study. Physical Chemistry Chemical Physics, 2018 , 20, 18400-18409 3.6	4
484	Hetero-nanostructured materials for high-power lithium ion batteries. 2018 , 529, 505-519	15
483	Assembly of P3HT/CdSe nanowire networks in an insulating polymer host. <i>Soft Matter</i> , 2018 , 14, 5327-5332	3
482	On the prediction of external shape of ZnO nanocrystals. 2019 , 106, 291-297	14
481	Anisotropic gold nanoparticles crystalizes in multifaceted superstructures. 2019 , 6, 105006	8
480	Exploring the promising potential of MoS-RuS binary metal sulphide towards the electrocatalysis of antibiotic drug sulphadiazine. 2019 , 1086, 55-65	20
479	Improvement in efficiency and stability of quantum dot/polymer nanocomposite film for light-emitting diodes using refractive index-controlled quantum dot \square ilica hybrid particles. <i>Journal</i> 7.1 of Materials Chemistry C, 2019 , 7, 11764-11769	2

478	Electronic and magnetic properties of B-Doped XS ($X = Zn$ and Cd): A density functional theory study. 2019 , 572, 291-295	3
477	A General One-Pot Approach to Synthesize Binary and Ternary Metal Sulfide Nanocrystals. 2019 , 14, 19	7
476	Implication of Molecular Weight on Optical and Charge Transport Anisotropy in PQT-C12 Films Fabricated by Dynamic FTM. ACS Applied Materials & Theorem 29.5	13
475	Formation of ZnO/ZnCdSe Alloy Quantum Dots in the Presence of High Oleylamine Contents. 2019 , 9,	3
474	Binary Self-Assembly of Conjugated Block Copolymers and Quantum Dots at the Air-Liquid Interface into Ordered Functional Nanoarrays. <i>ACS Applied Materials & Dots at the Air-Liquid Materials </i>	13
473	Controlling Anisotropy of Quantum-Confined CsPbBr3 Nanocrystals by Combined Use of Equilibrium and Kinetic Anisotropy. 2019 , 31, 5655-5662	14
472	Experimental and Theoretical Studies on Molecular Structures, Nanostructural Features, and Photophysical Properties of 5-Amino-1-Alkylimidazole-4-Carboxamide Compounds. 2019 , 60, 990-1007	
471	Ambient synthesis of nanomaterials by in situ heterogeneous metal/ligand reactions. 2019 , 11, 14060-14069	9
470	Photocatalytic degradation of methylene blue using PANiNiO nanocomposite under visible light irradiation. 2019 , 6, 0950c8	12
469	A versatile simulation method for studying phase behavior and dynamics in colloidal rod and rod-polymer suspensions. 2019 , 150, 244508	7
468	Formation of Copper(I) Oxide- and Copper(I) Cyanide-Polyacetonitrile Nanocomposites through Strong-Field Laser Processing of Acetonitrile Solutions of Copper(II) Acetate Dimer. 2019 , 123, 6430-6438	4
467	Influence of graphene on the structural and electrical properties of PCDTBT polymer. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 20823-20831	
466	Syntheses and Properties of Conjugated Polymers Containing Thieno[2,3-b]indole with Different Electron-deficient Units. 2019 , 40, 1208-1214	O
465	Effect of Adding BaTiO3 to PVDF as Nano Generator. 2019 , 1294, 022012	7
464	Synthesis of High-Quality Carboxyl End-Functionalized Poly(3-hexylthiophene)/CdSe Nanocomposites. 2019 , 2019, 1-8	
463	Photoinduced Reversible Modulation of Fluorescence of CdSe/ZnS Quantum Dots in Solutions with Diarylethenes. 2019 , 29, 1311-1320	9
462	Effect of Processing Parameters on Polymerization of P3HT in Presence of CdS. 2019 , 48, 8212-8223	1
461	Recent advances in green fabrication of luminescent solar concentrators using nontoxic quantum dots as fluorophores. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12373-12387	42

460	Synthesis, photophysical properties and surface chemistry of chalcopyrite-type semiconductor nanocrystals. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 11665-11709	7.1	41
459	Computational studies of mono-chalcogenides ZnS and ZnSe at high-pressures. 2019 , 15, 102626		4
458	Recent Progress on Metal Chalcogenide Semiconductor Tetrapod-Shaped Colloidal Nanocrystals and their Applications in Optoelectronics. 2019 , 31, 9216-9242		25
457	Colloidal Self-Assembly of Inorganic Nanocrystals into Superlattice Thin-Films and Multiscale Nanostructures. 2019 , 9,		4
456	Interdisciplinary Chemistry Based on Integration of Liquid Crystals and Conjugated Polymers: Development and Progress. 2019 , 92, 1509-1655		51
455	Dendrimer-Templated Synthesis and Characterization of Tin Oxide Quantum Dots Deposited on a Silica Glass Substrate. 2019 , 31, 8373-8382		6
454	Preparation of bright-emissive hybrid materials based on light-harvesting POSS having radially integrated luminophores and commercial Econjugated polymers. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 314-320	7.8	10
453	A generalizable method for the construction of MOF@polymer functional composites through surface-initiated atom transfer radical polymerization. 2019 , 10, 1816-1822		48
452	Ligand-free preparation of polymer/CuInS nanocrystal films and the influence of 1,3-benzenedithiol on their photovoltaic performance and charge recombination properties. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 943-952	7.1	6
451	Ternary Composites with PbS Quantum Dots for Hybrid Photovoltaics. 2019 , 123, 3115-3121		9
450	Conjugated materials containing dithieno[3,2-b:2?,3?-d]pyrrole and its derivatives for organic and hybrid solar cell applications. 2019 , 7, 64-96		104
449	Effects of surface passivation by hydrogen on the structural and electronic properties of a germanium nanowire: A sp3 tight binding study. 2019 , 488, 404-417		3
448	Nanoscale Photoinduced Charge Transfer with Individual Quantum Dots: Tunability through Synthesis, Interface Design, and Interaction with Charge Traps. <i>ACS Omega</i> , 2019 , 4, 9102-9112	3.9	12
447	Electrochemically grown vertical CdTe nanowire arrays on a flexible/transparent substrate. 2019 , 253, 113-116		1
446	Nanosized iron telluride for simultaneous nanomolar voltammetric determination of dopamine, uric acid, guanine and adenine. 2019 , 43, 10590-10600		12
445	Ultrahigh Hot Carrier Transient Photocurrent in Nanocrystal Arrays by Auger Recombination. 2019 , 19, 4804-4810		12
444	Structural and Thermomechanical Properties of Zincblende-Type ZnX (X = S, Se, Te). 2019 , 48, 5806-58	12	1
443	Wide-Range Band-Gap Tuning and High Electrical Conductivity in La- and Pb-Doped SrSnO Epitaxial Films. <i>ACS Applied Materials & Samp; Interfaces</i> , 2019 , 11, 25605-25612	9.5	6

442	Measurement of ligand coverage on cadmium selenide nanocrystals and its influence on dielectric dependent photoluminescence intermittency. 2019 , 2,	8
441	Phthalocyanine and Metal Phthalocyanines Adsorbed on Graphene: A Density Functional Study. 2019 , 123, 16614-16620	19
440	Tunable electron transfer rate in a CdSe/ZnS-based complex with different anthraquinone chloride substitutes. 2019 , 9, 7756	4
439	Synthesis of Solution-Processable Nanoparticles of Inorganic Semiconductors and Their Application to the Fabrication of Hybrid Materials for Organic Electronics and Photonics. 2019 , 57-180	1
438	Single-Walled Carbon Nanotubes in Solar Cells. 2019 , 271-298	15
437	Self-Assembly of Catalytically Active Supramolecular Coordination Compounds within Metal-Organic Frameworks. 2019 , 141, 10350-10360	25
436	Recent Progress on 2D Group II-VI Binary Chalcogenides ZnX and CdX (X´=´S, Se, Te): From a Theoretical Perspective. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900061	4
435	Enhanced Photovoltaic Performance of Hybrid Solar Cells with a Calcium Interfacial Metal Electrode. 2019 , 48, 4589-4597	5
434	Tight-binding study of the structure of the electronic energy band of the quaternary solid solutions series CuIn1⊠AlxTe2. 2019 , 92, 1	1
433	Heavy-Metal-Free Colloidal Semiconductor Nanorods: Recent Advances and Future Perspectives. 2019 , 31, e1900781	49
432	Advancement in science and technology of carbon dot-polymer hybrid composites: a review. 2019 , 1, 022001	66
431	Single-Walled Carbon Nanotubes. 2019,	11
430	Improvement of quantum and power conversion efficiency through electron transport layer modification of ZnO/perovskite/PEDOT: PSS based organic heterojunction solar cell. 2019 , 185, 439-444	12
429	Influence of capping ligands on the assembly of quantum dots and their properties. 2019 , 35, 1053-1060	3
428	Role of polyaniline thickness in polymer-zinc oxide based solid state solar cell. 2019 , 244, 23-28	7
<u>'</u>		
427	Improvement of inverted structure organic solar cells by Ar plasma treatment on P3HT:PC61BM active layer. 2019 , 34, 43-48	3
		3 7

424	An investigation into the photovoltaic activity of a new nanocomposite of (polyaniline nanofibers)/(titanium dioxide nanoparticles) with different architectures. 2019 , 252, 50-61	17
423	Emission Enhancement from CdSe/ZnS Quantum Dots Induced by Strong Localized Surface Plasmonic Resonances without Damping. 2019 , 10, 2113-2120	6
422	In situ grown silver bismuth sulfide nanorod arrays and their application to solar cells. 2019 , 21, 3137-3141	7
421	Characterization of performance parameters of organic solar cells with a buffer ZnO layer. 2019 , 10, 015005	4
420	Functional Printing of Conductive Silver-Nanowire Photopolymer Composites. 2019 , 9, 6465	21
419	Nanomaterials for Advanced Analytical Applications in Chemo- and Biosensors. <i>Environmental Chemistry for A Sustainable World</i> , 2019 , 91-110	3
418	Nanocomposites Consisting of Chalcogenide Semiconductors and Gold. 2019 , 69-147	
417	Tuning the charge transport and photo-physical behavior in hybrid poly(3-hexylthiophene) and silver sulfide quantum dot based nanocomposite devices. 2019 , 69, 361-366	7
416	Photoluminescence Investigation of the InP/ZnS Quantum Dots and Their Coupling with the Au Nanorods. 2019 , 48, 3497-3503	1
415	Visible photoactivity and antiphotocorrosion performance of CdS photocatalysts by the hybridization of N-substituted carboxyl group polyaniline. 2019 , 480, 557-564	15
414	Density functional study of structural, elastic, electronic and optical properties of BexCd1\(\mathbb{B}\)S, BexCd1\(\mathbb{B}\)Se and BexCd1\(\mathbb{D}\)Te alloys using FP-LAPW approach. 2019 , 563, 1-22	3
413	Enhanced performance of PTB7-Th:PCBM based active layers in ternary organic solar cells 2019 , 9, 7457-746	i 3 9
412	Organic photonic nanostructures. 2019 , 111-138	
411	Development of Paint-Type Dye-Sensitized Solar Cell Using Carbon Nanotube Paint. 2019 , 2019, 1-6	2
410	Reevaluating the effects of reorganization energy on electron transfer rate for quantum dot-molecular acceptor complexes in different solvents. 2019 , 218, 237-242	4
409	Tailoring Co-assembly of Nanodiscs and Block Copolymer-Based Supramolecules by Manipulating Interparticle Interactions. 2019 , 52, 2833-2842	10
408	Large-Area 3D Hierarchical Superstructures Assembled from Colloidal Nanoparticles. 2019 , 15, e1805308	8
407	Flexible Triboelectric Nanogenerator Based on Paper, PET and Aluminum. 2019,	2

406	Enhancement of the band edge emission of CdSe nano-tetrapods by suppression of surface trapping. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 9512-9519	3.6	10
405	Hierarchical Sm-doped ZnO nanorodflanosheet architecture: dielectric and ferroelectric studies. 2019 , 125, 1		10
404	Embossed Hybrid Synthesis of ZnO Nanocrystals on Self-Organized One-Dimensional Poly(3-butylthiophene) Nanowires. 2019 , 216, 1801001		2
403	Conducting Polymers Incorporated with Related Graphene Compound Films for Use for Humidity and NH3 Gas Sensing. 2019 ,		
402	Morphology Tuning of ZnO/P3HT/P3HT- b-PEO Hybrid Films Deposited via Spray or Spin Coating. <i>ACS Applied Materials & Deposited Via Spray or Spin Coating.</i>	9.5	4
401	Solid state ASE from an oligomer (HOTF) in polymethyl methacrylate. 2019 , 26, 103-110		
400	From Atoms to Lives: The Evolution of Nanoparticle Assemblies. 2019 , 29, 1807658		32
399	Preparation of anisotropic CdSe-P3HT core-shell nanorods using directly synthesized Br-functionalized CdSe nanorods. 2019 , 362, 84-89		2
398	Synthesis of salt-stable fluorescent nanoparticles (quantum dots) by polyextremophile halophilic bacteria. 2019 , 9, 1953		32
397	Light trapping in photonic structures. 2019 , 45-91		1
397 396	Light trapping in photonic structures. 2019, 45-91 Molecular dynamics study on composition and temperature dependences of mechanical properties of CdTeSe nanowires under uniaxial stretching. 2019, 33, 1950373		2
	Molecular dynamics study on composition and temperature dependences of mechanical properties		
396	Molecular dynamics study on composition and temperature dependences of mechanical properties of CdTeSe nanowires under uniaxial stretching. 2019 , 33, 1950373 Beryllium Effect on the Energy Band Gaps and the Electronic Charge Density of the Alloy (Be, Cd)		
396 395	Molecular dynamics study on composition and temperature dependences of mechanical properties of CdTeSe nanowires under uniaxial stretching. 2019 , 33, 1950373 Beryllium Effect on the Energy Band Gaps and the Electronic Charge Density of the Alloy (Be, Cd) Se. 2019 , 297, 131-142 Unique Luminescence of Hexagonal Dominant Colloidal Copper Indium Sulphide Quantum Dots in		2
396 395 394	Molecular dynamics study on composition and temperature dependences of mechanical properties of CdTeSe nanowires under uniaxial stretching. 2019, 33, 1950373 Beryllium Effect on the Energy Band Gaps and the Electronic Charge Density of the Alloy (Be, Cd) Se. 2019, 297, 131-142 Unique Luminescence of Hexagonal Dominant Colloidal Copper Indium Sulphide Quantum Dots in Dispersed Solutions. 2019, 9, 20144 Cation exchange synthesis of Culn Ga Se nanowires and their implementation in photovoltaic		3
396 395 394 393	Molecular dynamics study on composition and temperature dependences of mechanical properties of CdTeSe nanowires under uniaxial stretching. 2019, 33, 1950373 Beryllium Effect on the Energy Band Gaps and the Electronic Charge Density of the Alloy (Be, Cd) Se. 2019, 297, 131-142 Unique Luminescence of Hexagonal Dominant Colloidal Copper Indium Sulphide Quantum Dots in Dispersed Solutions. 2019, 9, 20144 Cation exchange synthesis of CuIn Ga Se nanowires and their implementation in photovoltaic devices 2019, 9, 35780-35785 DonorBcceptor units modulate the electronic and photoluminescence characteristics of thiophene		3
396 395 394 393 392	Molecular dynamics study on composition and temperature dependences of mechanical properties of CdTeSe nanowires under uniaxial stretching. 2019, 33, 1950373 Beryllium Effect on the Energy Band Gaps and the Electronic Charge Density of the Alloy (Be, Cd) Se. 2019, 297, 131-142 Unique Luminescence of Hexagonal Dominant Colloidal Copper Indium Sulphide Quantum Dots in Dispersed Solutions. 2019, 9, 20144 Cation exchange synthesis of CuIn Ga Se nanowires and their implementation in photovoltaic devices 2019, 9, 35780-35785 Donor Cceptor units modulate the electronic and photoluminescence characteristics of thiophene oligomers. 2019, 126, 245501	715	3

388	TiO2 microrods with stacked 3D nanovoids for photoelectrochemical water splitting. 2019 , 91, 1733-1747	О
387	Core@Corona Functional Nanoparticle-Driven Rod-Coil Diblock Copolymer Self-Assembly. 2019 , 35, 16925-16	593/4
386	Efficient hybrid colloidal quantum dot/organic solar cells mediated by near-infrared sensitizing small molecules. 2019 , 4, 969-976	78
385	A bridge for charge carriers. 2019 , 4, 910-911	
384	Diameter Dependent Electronic, Optical and Transport Properties of CdSe Nanowire: Ab-Initio Study. 2019 , 53, 1759-1768	2
383	Fullerene for the Improvement of PbS QDs-Based Hybrid Solar Cells. 2019 , 53, 1946-1949	
382	Core-shell ZnO:Ga-SiO nanocrystals: limiting particle agglomeration and increasing luminescence surface defect passivation 2019 , 9, 28946-28952	6
381	First Principles Study of Thermodynamic Properties of CdxZn1図O (0 <i>版園</i>) Ternary Alloys. 2019 , 74, 1115-1122	
380	Moisture-enabled electricity generation from gradient polyoxometalates-modified sponge-like graphene oxide monolith. 2019 , 54, 4831-4841	10
379	Influence of Pb on structure, optical and electrical properties of Zn1-XPbXS semiconductor compounds at low temperatures. 2019 , 715, 147-152	2
378	Cyanobacterial Bioenergy and Biofuels Science and Technology: A Scientometric Overview. 2019 , 419-442	1
377	Applications. 2019 , 53-83	
376	Aziridine-functionalized graphene: Effect of aromaticity for aryl functional groups on enhanced power conversion efficiency of organic photovoltaic cells. 2019 , 23, 655-665	4
375	Textile-Based Triboelectric Nanogenerators for Self-Powered Wearable Electronics. 2019 , 29, 1804533	103
374	Coordinating Effect of Non-phosphine Solvents on the Structure and Morphological Properties of Cu2SnSe3 (CTSe) Nanoparticles Synthesized by Hot-Injection Method. 2019 , 29, 477-482	2
373	Photocatalytic Reduction of Bicarbonate to Formic Acid Using Hierarchical ZnO Nanostructures. 2019 , 7, 1210-1219	12
372	Spectral engineering and tunable thermoelectric behavior in a quasiperiodic ladder network. 2019 , 383, 570-577	1
371	Dopant incorporation in ultrasmall quantum dots: a case study on the effect of dopant concentration on lattice and properties of SnO2 QDs. <i>Journal of Materials Science: Materials in</i> 2.1 <i>Electronics</i> , 2019 , 30, 2246-2264	9

(2020-2019)

370	Bilayer nanocarbon heterojunction for full-solution processed flexible all-carbon visible photodetector. 2019 , 7, 031501		5
369	Preparation of organic-inorganic nanocomposites using directly synthesized Br-functionalized nanocrystals. 2019 , 475, 695-699		
368	Interfacial evolution of AgBiS2 absorber layer obtained by SILAR method in hybrid solar cells. 2019 , 52, 125502		5
367	Fabrication and photocatalytic properties of MultiMorphological CdS NSs prepared by the thermolysis of heterocyclic dithiocarbamate Cadmium(II) complexes as precursors. 2019 , 162, 786-796		5
366	Flexible, biodegradable and recyclable solar cells: a review. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 951-974	2.1	27
365	A novel route to the formation of 3D nanoflower-like hierarchical iron oxide nanostructure. 2019 , 30, 095601		8
364	Superior charge discharge ability of reduced graphene oxide/Li-ion embedded polymer composite films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 2136-2145	2.1	11
363	MEH-PPV/CdS Hybrid Nanowire Polymer Solar Cell Array. 2019 , 48, 1074-1078		1
362	Magnetic field effect on polaron recombination in conjugated polymers. 2019, 108, 1-6		3
361	Architecture-transformable polymers: Reshaping the future of stimuli-responsive polymers. 2019 , 89, 61-75		132
360	Simple synthesis of Ag-doped CdS nanostructure material with excellent properties. 2020 , 10, 23-28		26
359	A review on piezo-/ferro-electric properties of morphologically diverse ZnO nanostructures. 2020 , 816, 152491		36
358	Design of Nanoparticle Systems by Controllable Assembly and Temporal/Spatial Regulation. 2020 , 30, 1903351		8
357	Building self-powered emergency electronics based on hybrid nanogenerators for field survival/rescue. 2020 , 8, 574-581		2
356	Recent advances in highly efficient organic-silicon hybrid solar cells. 2020 , 204, 110245		18
355	Calculations of the structural and optoelectronic properties of cubic CdxZn1\(\mathbb{Z}\)SeyTe1\(\mathbb{J}\) semiconductor quaternary alloys using the DFT-based FP-LAPW approach. 2020 , 19, 1-25		6
354	Performance of Natural Dyes in Dye-Sensitized Solar Cell as Photosensitizer. 2020 , 21, 105-116		8
353	Colloidal metal oxides in electronics and optoelectronics. 2020 , 203-246		3

352	CdTe quantum dots prepared using herbal species and microorganisms and their anti-cancer, drug delivery and antibacterial applications; a review. <i>Ceramics International</i> , 2020 , 46, 9979-9989	13
351	Global and target analysis of relaxation processes of the collapsed state of P3HT polymer nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 2229-2237	5
350	Surface modification of mesoporous silica by radiation induced graft polymerization of styrene and subsequent sulfonation for ion-exchange applications. <i>Journal of Applied Polymer Science</i> , 2020 , 2.9 137, 48835	5
349	Structural, mechanical and optoelectronic features of cubic MgxCd1\(\mathbb{B}\)S, MgxCd1\(\mathbb{B}\)Se and MgxCd1\(\mathbb{I}\)Te semiconductor ternary alloys: Theoretical investigations using density functional FP-LAPW approach. 2020 , 22, e00448	O
348	Effects of External Magnetic Fields on Optical Properties of an Oxide Quantum Dot Using the Smorodinsky Winternitz Potential. 2020 , 49, 2257-2264	3
347	Influence of the Ligand Stripping on the Transport Properties of Nanoparticle-Based PbSe Nanomaterials. 2020 , 3, 2120-2129	5
346	Investigation of structural stability, electronic properties of S-doped CdSe using ab initio calculations. 2020 , 31, 701-708	3
345	Photoelectric Cardiac Pacing by Flexible and Degradable Amorphous Si Radial Junction Stimulators. 2020 , 9, e1901342	6
344	Integrated Photodetectors Based on Group IV and Colloidal Semiconductors: Current State of Affairs. 2020 , 11,	6
343	Vat Dye Safranin O- and Perylene-Based Conjugated DonorAcceptor Polyimide as Sensitizer for Dye-Sensitized Solar Cells. 2020 , 34, 14527-14534	4
342	Longitudinal shape evolution of AgS nanoparticles from nanospheres, rhombic dodecahedrons, nanorods, to nanocubes. 2020 , 56, 9655-9658	
341	Scattering of Incident P-Waves by a Semicylindrical Core-Shell Structure in an Elastically Constrained Half-Space at Nanoscale. 2020 , 2020, 1-11	
340	Revealing the sub-50 ms electrochemical conversion of silver halide nanocolloids by stochastic electrochemistry and optical microscopy. 2020 , 12, 15128-15136	6
339	Modeling Spontaneous Charge Transfer at Metal/Organic Hybrid Heterostructures. 2020 , 124, 4802-4809	6
338	Size-Dependent Photovoltaic Performance of CdSe Supraquantum Dot/Polymer Hybrid Solar Cells: Goldilocks Problem[Resolved by Tuning the Band Alignment Using Surface Ligands. 2020 , 124, 25775-25783	1
337	Structural and energetic properties of P3HT and PCBM layers on the Ag(1 1 1) surface. 2020 , 1190, 112997	0
336	Cationic and anionic concentration dependent elastic properties of zinc blende specimens within Cd Zn1-S Se1- quaternary system: Calculations with density functional theory. 2020 , 322, 114050	2
335	Electrical and network properties of flexible silver-nanowire composite electrodes under mechanical strain. 2020 , 12, 23831-23837	7

334	Heterostructures in Two-Dimensional CdSe Nanoplatelets: Synthesis, Optical Properties, and Applications. 2020 , 32, 9490-9507		18
333	Design, synthesis, and spasmolytic activity of thiophene-based derivatives via Suzuki cross-coupling reaction of 5-bromothiophene-2-carboxylic acid: their structural and computational studies. 2020 , 44, 1410-1422		2
332	Surface defect-abundant one-dimensional graphitic carbon nitride nanorods boost photocatalytic nitrogen fixation. 2020 , 44, 20651-20658		26
331	Influence of Si-nanoparticles on PEDOT:PSS properties for hybrid solar cells. 2020 , 33, 2517-2519		
330	Sensitivity of germanium content on growth conditions of silicon-germanium nanoparticles prepared in nonthermal capacitively-coupled plasmas. 2020 , 91, 20801		O
329	Impact of Tin concentration in ITO films on Optoelectronic sensor performance. 2020 , 872, 012168		
328	Nanoparticles influence miscibility in LCST polymer blends: from fundamental perspective to current applications. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 20167-20188	3.6	8
327	Mid-infrared photoconductivity of polypyrrole doped with cadmium sulfide quantum dots. 2020 , 141, 109383		3
326	Synthesis and Characterization of CuInGaSe Semiconductor Nanocrystals. 2020, 10,		1
325	First-principle calculations of structural and optoelectronic properties of cubic CdxZn1\(\textbf{S}\) SySe1\(\textbf{J}\) quaternary alloys with modified Becke\(\textbf{J}\) ohnson (mBJ) functional. 2020 , 1		
324	Enhanced light transmission of carbon nanotube film by ultrathin oxide coatings. <i>AIP Advances</i> , 2020 , 10, 075304	1.5	Ο
323	Other Hybridized Nanogenerators. 2020 , 97-132		
322	The structural properties of silicon-doped DBrTBT/ZnSe solar cell materials: a theoretical study. 2020 , 44, 15289-15296		
321	Optoelectronic properties of type-II SePtTe/InS van der Waals heterojunction. 2020 , 128, 043103		3
320	Colloidal Quantum Dot Photovoltaics: Current Progress and Path to Gigawatt Scale Enabled by Smart Manufacturing. 2020 , 5, 3069-3100		37
319	WS Quantum Dots on e-Textile as a Wearable UV Photodetector: How Well Reduced Graphene Oxide Can Serve as a Carrier Transport Medium?. <i>ACS Applied Materials & Description of the Can Serve as a Carrier Transport Medium?</i> . <i>ACS Applied Materials & Description of the Can Serve as a Carrier Transport Medium?</i> .	30 ² 3 ⁵ 97	'44 ¹
318	Solution Growth of BiSI Nanorod Arrays on a Tungsten Substrate for Solar Cell Application. 2020 , 8, 13	488-13	34%6
317	Enhanced blue photoluminescence and new crystallinity of Ag/organic rubrene core-shell nanoparticles through hydrothermal treatment. 2020 , 20, 1201-1206		1

316	Highly Scattering Hierarchical Porous Polymer Microspheres with a High-Refractive Index Inorganic Surface for a Soft-Focus Effect. <i>Polymers</i> , 2020 , 12,	3
315	Bidimensional lamellar assembly by coordination of peptidic homopolymers to platinum nanoparticles. 2020 , 11, 2051	8
314	Highly Efficient Inorganic Drganic Heterojunction Solar Cells Based on Polymer and CdX (X = Se, Te) Quantum Dots: An Insight from a Theoretical Study. 2020 , 124, 11350-11357	7
313	A time-domain view of charge carriers in semiconductor nanocrystal solids. 2020 , 11, 5157-5167	4
312	Metal Halide Perovskites in Quantum Dot Solar Cells: Progress and Prospects. 2020 , 4, 1160-1185	117
311	Bottom-Up Approaches for Precisely Nanostructuring Hybrid Organic/Inorganic Multi-Component Composites for Organic Photovoltaics. 2020 , 5, 2055-2065	2
310	Optically tunable mesoscale CdSe morphologies via inorganic phototropic growth. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12412-12417	7
309	Selective and Sensitive Photon Sieve Based on IIII Semiconductor Nanowire Forest Fabricated by Lithography-Free Process. 2020 , 8, 2000198	5
308	Density Functional Calculations of Elastic and Thermal Properties of Zinc-Blende Mercury Ladmium-Chalcogenide Ternary Alloys. 2020 , 27, 3823	2
307	Theoretical model for size, dimension and shape effect on electrical behavior of semiconductor nanomaterials. 2020 , 126, 1	1
306	Ligand engineering of colloid quantum dots and their application in all-inorganic tandem solar cells. 2020 , 50, 230-239	11
305	Semiconductor Quantum Dots for Memories and Neuromorphic Computing Systems. 2020 , 120, 3941-4006	103
304	Optical Spectroscopy of Single Colloidal CsPbBr Perovskite Nanoplatelets. 2020 , 20, 3673-3680	28
303	Transforming energy using quantum dots. 2020 , 13, 1347-1376	45
302	Synergistic activity of binary metal sulphide WS2RuS2 nanospheres for the electrochemical detection of the antipsychotic drug promazine. 2020 , 44, 4621-4630	5
301	Improved short-circuit current density in bulk heterojunction solar cells with reduced graphene oxide-germanium dioxide nanocomposite in the photoactive layer. 2020 , 254, 123448	10
300	Recent Progress in Hybrid Solar Cells Based on Solution-Processed Organic and Semiconductor Nanocrystal: Perspectives on Device Design. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4285	5
299	Metal/semiconductor interfaces in nanoscale objects: synthesis, emerging properties and applications of hybrid nanostructures. 2020 , 2, 930-961	25

(2021-2020)

298	Preparation and performance of cadmium sulfide/sulfonated poly(ether ether ketone) nanocomposite materials. 2020 , 32, 849-856	2
297	Robust electrochemical performance of polypyrrole (PPy) and polyindole (PIn) based hybrid electrode materials for supercapacitor application: A review. 2020 , 29, 101302	69
296	Electron transfer in a semiconductor heterostructure interface through electrophoretic deposition and a linker-assisted method. 2020 , 22, 1664-1673	4
295	Multinary copper-based chalcogenide semiconductor nanocrystals: synthesis and applications in light-emitting diodes and bioimaging. 2020 , 22, 1	13
294	Ultrasound-assisted synthesis of rGO/Sb4O5Cl2/Sb2S3 for a high photo-catalytic rate. 2020 , 44, 3103-3111	8
293	Few-Layer 野nSe with Strong Visible Light Absorbance and Ultrahigh Carrier Mobility. 2020 , 13,	7
292	Lattice thermal conductivity of CdxZn1⊠X (X=O, S, Se, Te) from first principles. 2020 , 251, 123099	3
291	A Low-Cost and High-Efficiency Integrated Device toward Solar-Driven Water Splitting. <i>ACS Nano</i> , 2020 , 14, 5426-5434	14
290	An inverted ZnO/P3HT:PbS bulk-heterojunction hybrid solar cell with a CdSe quantum dot interface buffer layer 2020 , 10, 16693-16699	9
289	In Situ Optical Monitoring of the Electrochemical Conversion of Dielectric Nanoparticles: From Multistep Charge Injection to Nanoparticle Motion. 2020 , 142, 7937-7946	22
288	Versatile surface-active ionic liquid: construction of microemulsions and their applications in light harvesting. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 8157-8163	3
287	Highly luminescent blue-emitting In1 \square GaxP \square ZnS quantum dots and their applications in QLEDs with inverted structure. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7679-7687	2
286	Polymer Coated Semiconducting Nanoparticles for Hybrid Materials. 2020 , 8, 20	5
285	Temperature-Controlled Fragmentation and Ripening: Synthesis of ZnSe Nanorods with Variable Dimensions and Crystal Structure Starting from Ultrathin ZnSe Nanowires. 2020 , 32, 3960-3969	9
284	A study of the temperature effect on photoluminescence of the P3HT/MWNT nanocomposites. 2021 , 36, 549-552	
283	Advanced functionalized nanographene oxide as a biomedical agent for drug delivery and anti-cancerous therapy: A review. 2021 , 142, 110124	7
282	High Quality Electret Based Triboelectric Nanogenerator for Boosted and Reliable Electrical Output Performance. 2021 , 8, 125-137	13
281	Review [bolymeric materials for energy harvesting and storage applications. 2021 , 60, 626-649	1

280	Enhancing the Optical and Optoelectronic Properties of MEH-PPV-Based Light-Emitting Diodes by Adding SiO2/TiO2 Nanocomposites. 2021 , 552, 120429	5
279	Recent Progress in Metal Oxide for Photovoltaic Application. 2021 , 99-145	
278	Solution-processed two-dimensional materials for next-generation photovoltaics. 2021 , 50, 11870-11965	21
277	Impact of doping transition metal in optically sensitive CuS with as prepared CuS. 2021,	
276	Effect of Ag S nanoparticles on optical, photophysical, and electrical properties of P3HT thin films. 2021 , 36, 761-768	2
275	Surface Photo-Voltage Spectroscopy: A Versatile Technique to Probe Semiconductor Materials and Devices. 2021 , 605-635	
274	Advanced research trends in dye-sensitized solar cells. 2021 , 9, 10527-10545	64
273	Hybrid Optoelectronic Materials for Photodetection Applications. 2021 , 45-64	O
272	Role of Cobalt Doping in CdS Quantum Dots for Potential Application in Thin Film Optoelectronic Devices. 2021 , 125, 2074-2088	6
271	Effective control of solution self-assembly of P3HT/zinc salt complex for in situ template synthesis of P3HT/ZnO nanohybrids. 2021 , 215, 123385	1
270	Complex Resonant Scattering Behavior in the Surface Plasmon Resonance Imaging Microscopy of Single Gold Nanorods. 2021 , 12, 2004-2010	3
269	Characterization, spectroscopic investigation of defects by positron annihilation, and possible application of synthesized PbO nanoparticles*. 2021 , 30, 026103	1
268	Measuring, controlling and exploiting heterogeneity in optoelectronic nanowires. 2021, 3, 022004	3
267	Carbon/graphene quantum dot and conjugated polymer nanostructures impart unprecedented high efficiencies in routine P3HT:PCBM photovoltaics. 2021 , 215, 77-91	1
266	Synthesis of Magnetic Ions-Doped QDs Synthesized Via a Facial Aqueous Solution Method for Optical/MR Dual-Modality Imaging Applications. 2021 , 31, 897-906	1
265	One-Step Synthesis of Water-Soluble CdS Quantum Dots for Silver-Ion Detection. <i>ACS Omega</i> , 2021 , 6, 7139-7146	4
264	Polymer/quantum dot nanostructures in remarkably stabilized photovoltaics based on polymers having benzodithiophene/naphthothiadiazole constituents. 2021 , 45, 13284-13297	
263	Charge carrier confinement in hematite and hematite / MoTe2 nanocomposites; the role of interface states. 2021 , 113, 106532	1

262	Phase behavior of polymer-nanorod composites: A comparative study using PRISM theory and molecular dynamics simulations. 2021 , 154, 124903	4
261	Fabrication of a poly(N-vinyl carbazole)/?-Ga2O3 organicIhorganic heterojunction diode for solar-blind sensing applications. 2021 , 54, 215104	5
260	Inorganic-Ligand Quantum Dots Meet Inorganic-Ligand Semiconductor Nanoplatelets: A Promising Fusion to Construct All-Inorganic Assembly. 2021 , 60, 6994-6998	
259	Enhanced photoelectrochemical response of 1D TiO2 by atmospheric pressure plasma surface modification. 2021 , 46, 12715-12724	1
258	Efficient Energy Funneling in Spatially Tailored Segmented Conjugated Block Copolymer Nanofiber-Quantum Dot or Rod Conjugates. 2021 , 143, 7032-7041	14
257	Phase-Dependent Shell Growth and Optical Properties of ZnSe/ZnS Core/Shell Nanorods. 2021 , 33, 3413-342	7 4
256	Composition dependence in mechanical properties of zinc-blende compounds associated with the CdxZn1\(\mathbb{Z}\) system: a density functional study. <i>Bulletin of Materials Science</i> , 2021 , 44, 1	O
255	Structural, Electrical and Optical Properties of PVC/ZnTe Nanocomposite Thin Films. 2021, 31, 3637-3648	1
254	Recent progress in solar cells based on carbon nanomaterials. 2021 , 220, 953-990	10
253	High performance of multi-layered triboelectric nanogenerators for mechanical energy harvesting. 2021 , 222, 119949	14
252	Effect of polymerization conditions on physicochemical properties of gold-like lustrous films of organic solvent soluble 3-methoxythiophene oligomers. 2021 , 53, 1019-1029	O
251	Fabrication and Characterization of #e2O3 Nanoparticles Dispersed Epoxy Nanocomposites. 33-41	
250	Revealing the Surface Structure of CdSe Nanocrystals by Dynamic Nuclear Polarization-Enhanced Se and Cd Solid-State NMR Spectroscopy. 2021 , 143, 8747-8760	5
249	Tuning Hierarchical Order and Plasmonic Coupling of Large-Area, Polymer-Grafted Gold Nanorod Assemblies via Flow-Coating. <i>ACS Applied Materials & Acs Applied Materials & Acs</i>	1
248	Calculations of selenium and cadmium concentration dependent elastic and thermal properties of zinc-blende specimens under Cd Zn1-Se Te1- quaternary system with density functional theory. 2021 , 27, 102136	1
247	An adequate avenue towards well-designed PBDT-DTNT:PCBM active layers via quantum dot/conductive polymer configurations. 2021 , 99, 431-442	
246	Diffusion of Thin Nanorods in Polymer Melts. 2021 , 54, 7051-7059	3
245	PCDTBT:PCBM:CdSe Tetrapod Shaped Nanocrystals Hybrid Nanocomposites Based UV-Visible Photodetectors. 2021 , 33, 691-694	3

244	Synthesis and Study of the Thermally Stable Poly(arylene ether ketone) Nanohybrids Containing Cadmium Selenide Nanocrystals. 2021 , 6, 7622-7627	
243	Aggregation induced emission (AIE) materials based on diketopyrrolopyrrole chromophore for CdS nanowire solar cell applications. 2021 , 895, 115451	3
242	Anomalous Thermoelectric Transport Properties of Fe-Rich Magnetic FeTe. 2021 , 15, 2100231	2
241	Optical properties and energy transfer mechanism of Eu3+, Ce3+ doped and co-doped ZnS quantum dots. 2021 , 236, 118106	1
240	Effect of Forster resonance energy transfer on the photoluminescence of PPy-ZnO composite.	O
239	Unraveling the Instability Issues in P3HT:PCBM Solar Cells by Graphene/Carbon Quantum Dots and Host Polymer Chain/Fiber Arrangements. 2021 , 50, 6545-6563	
238	Plasmon-Enhanced Light Absorption in (p-i-n) Junction GaAs Nanowire Solar Cells: An FDTD Simulation Method Study. 2021 , 16, 149	O
237	Ordered nanostructures arrays fabricated by anodic aluminum oxide (AAO) template-directed methods for energy conversion. 2021 , 32,	3
236	Coaxial Conjugated Polymer/Quantum Rod Assembly into Hybrid Nanowires with Preferred Quantum Rod Orientation.	O
235	Mathematical analysis of plasmon resonances for curved nanorods. 2021 , 153, 248-280	6
234	Current Status and Challenges of Solar Cells Based on Semiconductor Nanocrystals.	1
233	Optical properties of PVC composite modified during light exposure to give high absorption	
	enhancement. 2021 , 570, 120946	3
232	enhancement. 2021 , 570, 120946 Ce doping induced modifications in structural, electrical and magnetic behaviour of hematite nanoparticles. 2021 , 272, 115327	2
232	Ce doping induced modifications in structural, electrical and magnetic behaviour of hematite	
	Ce doping induced modifications in structural, electrical and magnetic behaviour of hematite nanoparticles. 2021 , 272, 115327	2
231	Ce doping induced modifications in structural, electrical and magnetic behaviour of hematite nanoparticles. 2021 , 272, 115327 Synthesis of near-infrared-emitting type-II In(Zn)P/ZnTe (core/shell) quantum dots. 2021 , 886, 161233 Comparative study of morphological, optical and conductive properties between low and heavily	2
231	Ce doping induced modifications in structural, electrical and magnetic behaviour of hematite nanoparticles. 2021, 272, 115327 Synthesis of near-infrared-emitting type-II In(Zn)P/ZnTe (core/shell) quantum dots. 2021, 886, 161233 Comparative study of morphological, optical and conductive properties between low and heavily zinc doped nickel oxide thin films as hole transporting material. 2022, 889, 161613	2

(2008-2021)

226	Effect of graphene and carbon-nitride nanofillers on the thermal transport properties of polymer nanocomposites: A combined molecular dynamics and finite element study. 2021 , 103, 013310	6
225	Shell thickness dependent photostability studies of green-emitting Liant quantum dots.	3
224	Synergistic modulation of metal-free photocatalysts by the composition ratio change and heteroatom doping for overall water splitting. 2021 , 9, 11753-11761	5
223	Bynthesis of carbon nanomaterials by chemical vapor deposition method using green chemistry principles (2021, 273-314)	2
222	Quantum Dots. 3-47	4
221	Properties. 371-454	1
220	An Ab-Initio Study of Mechanical Behavior for (AEO)n Nanorods. 2006, 23-32	1
219	Sulphide Nanowires. 2003 , 209-238	5
218	Recent Applications of Nanoscale Materials: Solar Cells. 2009 , 1-31	1
217	Sensor Characteristics and Physical Effects. 2008 , 13-62	5
216	Quantum Dot-Sensitized, Three-Dimensional Nanostructures for Photovoltaic Applications. 2011 , 413-446	1
215	Water-solubilization and functionalization of semiconductor quantum dots. 2013 , 1025, 29-45	3
214	In-Situ Growth of CdS Nanorods in PTB7 by Solvothermal Process for Hybrid Organic Inorganic Solar Cell applications. 2014 , 331-333	2
213	Directing Convection to Pattern Thin Polymer Films: Coffee Rings. 2015 , 43-71	1
212	Nanostructured Chalcogenides. 2017 , 105-157	3
211	Optical Properties Of Cd1-xZnxSe From Density Functional Theory. 2014 , 1141-1148	1
210	Energy Harvesting Smart Textiles. 2017 , 199-231	8
209	P3HT/TiO2 Bulk Heterojunction Solar Cell Sensitized by Copper Phthalocyanine. 2008, 1303-1307	1

208	Encyclopedia of Polymeric Nanomaterials. 2013 , 1-12	1
207	Nanostructured Solar Cells. 2008, 552-564	1
206	Low-temperature solution-processed efficient electron-transporting layers based on BF4E apped TiO2 nanorods for high-performance planar perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 334-341	25
205	Synthesis and photophysical properties of fullerene derivatives containing a C60-fluorene core. 2019 , 43, 4356-4363	4
204	Low-threshold amplification of spontaneous emission from AgInS2 quantum dots. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8515-8520	3
203	Role of TiO 2 Nanotube on Improvement of Performance of Hybrid Photovoltaic Devices. 2009 , 26, 017202	1
202	Silicon surface passivation by PEDOT: PSS functionalized by SnO and TiO nanoparticles. 2018, 29, 035401	8
201	Rational design of multinary copper chalcogenide nanocrystals for photocatalytic hydrogen evolution. 2020 , 41, 091706	3
200	Characteristics of highly efficient star-shaped nanowires solar cell. 2018 , 8, 1	11
199	Plasmonic enhancement of absorption in bulk-heterojunction organic solar cells. 2019,	1
198	Manufacturing Electrical Contacts to Nanostructures. 2006 , 127-146	1
197	Introduction to Photovoltaic Physics, Applications, and Technologies. 2010 , 1-48	1
196	Nanostructured Organic Solar Cells. 2010 , 147-185	1
195	A new theoretical model for the dynamical analysis of Nano-Bio-Structures. 2013 , 1, 29-34	1
194	ZnO-free Inverted Polymer Solar Cells Based on New Viologen Derivative as a Cathode Buffer Layer. 2016 , 27, 512-515	3
193	Progress and Prospect on Stability of Perovskite Photovoltaics. 2017 , 4, 16-30	7
192	Effect of nanocrystals concentration on optical and luminescent properties of PVK:ZnSe nanocomposites. 2018 , 36, 494-500	3
191	Nano- and microstructuring of solids by swift heavy ions. 2017 , 187, 465-504	5

190	Tunable Fabrication of TiO2 Nanotube Arrays with High Aspect Ratio and its Application in Dye Sensitized Solar Cell. 2009 , 24, 897-901	9
189	Pyrolysis Synthesis of CdSe/ZnS Nanocrystal Quantum Dots and Their Application to Light-Emitting Diodes. 2008 , 18, 379-383	2
188	Synthesis and Exploitation in Solar Cells of Hydrothermally Grown ZnO Nanorods Covered by ZnS Quantum Dots. 2014 , 18, 307-316	3
187	A Review of Various Nanostructures to Enhance the Efficiency of Solar-Photon-Conversions. 2017 , 197-225	1
186	Preparation and Characterization of MMT Doped PVA/SA Polymer Composites. 2014, 04, 172-178	9
185	Enhancement of Performance of Organic Light Emitting Diodes by Using Ti- and Mo-Oxide Nano Hybrid Layers. 2013 , 04, 275-280	2
184	Colloidal Synthesis of Octahedral Shaped PbSe Nanocrystals from Lead Oleate and Se : Temperature Effect. 2005 , 26, 1803-1806	9
183	Anchoring Cadmium Chalcogenide Quantum Dots (QDs) onto Stable Oxide Semiconductors for QD Sensitized Solar Cells. 2007 , 28, 953-958	49
182	DFT Studies of Band Gaps of the Fused Thiophene Oligomers. 2008 , 29, 891-893	7
181	The Synthesis of a High Yield PbSe Quantum Dots by Hot Solution Method. 2008 , 29, 1729-1731	_
101	The synthesis of a riight field ruse Quantum Dots by flot solution Method. 2006, 25, 1725-1751	9
180	Electrochemical Synthesis of CdSe Nanoparticles Using a Se-modified RVC Electrode and Mercaptoacetic Acid as a Stabilizer. 2009 , 30, 1201-1203	5
	Electrochemical Synthesis of CdSe Nanoparticles Using a Se-modified RVC Electrode and	
180	Electrochemical Synthesis of CdSe Nanoparticles Using a Se-modified RVC Electrode and Mercaptoacetic Acid as a Stabilizer. 2009 , 30, 1201-1203 Effects of Curing Temperature on the Optical and Charge Trap Properties of InP Quantum Dot Thin	5
180 179	Electrochemical Synthesis of CdSe Nanoparticles Using a Se-modified RVC Electrode and Mercaptoacetic Acid as a Stabilizer. 2009 , 30, 1201-1203 Effects of Curing Temperature on the Optical and Charge Trap Properties of InP Quantum Dot Thin Films. 2011 , 32, 263-272 Synthesis and Characterization of Thiophene-Based Copolymers Containing Urethane and Alkyl	5
180 179 178	Electrochemical Synthesis of CdSe Nanoparticles Using a Se-modified RVC Electrode and Mercaptoacetic Acid as a Stabilizer. 2009, 30, 1201-1203 Effects of Curing Temperature on the Optical and Charge Trap Properties of InP Quantum Dot Thin Films. 2011, 32, 263-272 Synthesis and Characterization of Thiophene-Based Copolymers Containing Urethane and Alkyl Functional Side Chains for Hybrid Bulk Heterojunction Photovoltaic Cell Applications. 2011, 32, 559-565 One Pot Synthesis and Characterization of Alginate Stabilized Semiconductor Nanoparticles. 2012,	563
180 179 178	Electrochemical Synthesis of CdSe Nanoparticles Using a Se-modified RVC Electrode and Mercaptoacetic Acid as a Stabilizer. 2009, 30, 1201-1203 Effects of Curing Temperature on the Optical and Charge Trap Properties of InP Quantum Dot Thin Films. 2011, 32, 263-272 Synthesis and Characterization of Thiophene-Based Copolymers Containing Urethane and Alkyl Functional Side Chains for Hybrid Bulk Heterojunction Photovoltaic Cell Applications. 2011, 32, 559-565 One Pot Synthesis and Characterization of Alginate Stabilized Semiconductor Nanoparticles. 2012, 33, 3218-3224	5 6 3 67
180 179 178 177	Electrochemical Synthesis of CdSe Nanoparticles Using a Se-modified RVC Electrode and Mercaptoacetic Acid as a Stabilizer. 2009, 30, 1201-1203 Effects of Curing Temperature on the Optical and Charge Trap Properties of InP Quantum Dot Thin Films. 2011, 32, 263-272 Synthesis and Characterization of Thiophene-Based Copolymers Containing Urethane and Alkyl Functional Side Chains for Hybrid Bulk Heterojunction Photovoltaic Cell Applications. 2011, 32, 559-565 One Pot Synthesis and Characterization of Alginate Stabilized Semiconductor Nanoparticles. 2012, 33, 3218-3224 Preparation of PbS-coated CdTe Nanocrystals through Sonochemical Reaction. 2013, 34, 680-682 Effects of Ligand-exchanged Cadmium Selenide Nanoparticles on the Performance of	 5 6 3 67 5

172	Hybrid polymer-based solar cells with metal oxides as the main electron acceptor and transporter. 2015 , 64, 038804	3
171	Preparation and Characterization of CdSe-Decorated Multiwalled Carbon Nanotube Composites. 2011 , 50, 01BJ12	2
170	Enhanced Dielectric Relaxation in Self-Organized Layers of Polypeptides Coupled to Platinum Nanoparticles: Temperature Dependence and Effect of Bias Voltage. 2021 , 125, 22643-22649	О
169	Template Assisted Synthesis of Semiconductor Nanowires. 2003 , 317-341	
168	Nanowires. 2004 , 99-145	2
167	Development Trends and Perspectives of Dye-Sensitized Solar Cells. 2005 , 12, 7-16	
166	Supramolecular Properties of Polymers for Plastic Electronics. 2005,	
165	Heteronanostructures of CdS and Pt Nanoparticles in Polyelectrolytes. 2005, 437-461	
164	Photovoltaic Properties of MEH-PPV/DFPP Blend Devices Based on Novel n-type Polymer DFPP. 2006 , 17, 461-468	
163	Preparation and Characteristics of Elongated CdSe nanoparticles. 2008, 15, 210-213	
162	Nanosensors: Controlling Transduction Mechanisms at the Nanoscale Using Metal Oxides and Semiconductors. 2009 , 1-51	
161	Nanocrystals. 2008 , 2665-2675	
160	Large-Scale Ab Initio Study of Size, Shape, and Doping Effects on Electronic Structure of Nanocrystals. 2009 , 193-211	
159	Next-Generation Hybrid Nanocomposite Materials Based on Conducting Organic Polymers: Energy Storage and Conversion Devices. 2009 , 289-319	1
158	Bulk Heterojunction Solar Cells for Large-Area PV Fabrication on Flexible Substrates. 2009 , 373-412	
157	Design and Assembly of High-Aspect-Ratio Silica-Encapsulated Nanostructures for Nanoelectronics Applications. 2009 , 329-345	
156	Preparation technology and photoluminescence properties of CdTe nanocrystals in colloidal solutions and polymeric matrices. 2009 , 12, 294-297	
155	Routes toward High-Efficiency Polymer Solar Cells. 2009 , 319-358	

154	Silver /Silver Oxide Nanoparticles as Potential Sensitizers in Dye-Sensitized Solar Cells. 2010,	
153	Perspective of Hybridization Technology for Next-Generation Solar Cells. 2010 , 13, 1-9	1
152	Nanowire- and Nanotube-Based Solar Cells. 2010 , 211-251	1
151	Powering the Future with Nanotechnology. 2010 , 385-400	
150	Synthesis and Characterization of Aluminum Oxide Submicro-Rings. 2010 , 31, 1776-1778	2
149	Effect of PEDOT:PSS Layer and ITO Ozonization in Arylenevinylene (AVPV) Based Solar Cell Devices. 2011 , 02, 1702-1707	
148	Quantum Dots: Synthesis and Characterization. 2011 , 17-60	1
147	Polymer Encapsulation of Metallic and Semiconductor Nanoparticles: Multifunctional Materials with Novel Optical, Electronic and Magnetic Properties. 2409-2449	1
146	POLYMER-NANOCRYSTALS COMPOSITE MATERIALS AND PERFORMANCE OPTIMIZATION. 2011 , 011, 939-949	
145	CdS Nanoparticles Surfactant Removal Transport Study by Transient Charge Measurements. 2011 ,	
144	References. 177-198	
143	Nanocompuestos de P30T y 🏿 ido de Grafeno para Aplicaciones Fotovoltítas: Caracterizacifi FBica y Fisicoquínica. 2012 , 2, 6	
142	Fundamental Concepts. 2013 , 1-21	
141	Introduction. 2013 , 1-38	
140	A New Greener Synthetic Route to Cadmium/Lead Selenide and Telluride Nanoparticles. 31-43	
139	Probing Photoluminescence Dynamics in Colloidal Semiconductor Nanocrystal/Fullerene Heterodimers with Single Molecule Spectroscopy. 2013 , 561-590	
138	Variable gap and gap state distribution of film silicon. 2013 , 62, 147301	

136	High-Efficiency Hybrid Solar Cells Based on Polymer/PbSxSe1-x Nanocrystals Benefiting from Vertical Phase Segregation. 2013 ,	
135	Efficient Hybrid Solar Cells Based on Conjugated Polymer: PbSxSe1-x Nanocrystal CompositesBenefiting from Vertical Phase Segregation. 2013 ,	
134	CHAPTER 2:Nanophotonic Light Trapping Theory for Photovoltaics. 2014 , 31-61	
133	Introduction. 2014, 1-7	
132	Hybrid Polymer/Nanocrystal Solar Cells. 2014 , 159-201	
131	Influence of interfacial electron transfer on fluorescence blinking of quantum dots. 2014 , 63, 167302	2
130	Silicon Nanostructures by Self-Assembly and Metal-Assisted Etching. 2014 , 101-134	
129	Photovoltaics: Organic-Based Solar Cells. 2014 , 3657-3672	
128	Protein Nanotubes as Building Blocks. 3933-3944	
127	Electronic Properties of Noncrystalline Semiconductors. 2015 , 193-228	
126	ELECTRODES Nanoelectrodes. 2015 ,	
126	ELECTRODES Nanoelectrodes. 2015 , Encyclopedia of Nanotechnology. 2015 , 1-18	
		5
125	Encyclopedia of Nanotechnology. 2015 , 1-18	5
125	Encyclopedia of Nanotechnology. 2015 , 1-18 Properties of ground state and spectrum of CdSe in different external electric fields. 2015 , 64, 153102	
125 124 123	Encyclopedia of Nanotechnology. 2015, 1-18 Properties of ground state and spectrum of CdSe in different external electric fields. 2015, 64, 153102 CHAPTER 9:Organic Transistor Memory Devices and Materials. 2015, 295-329 A Review of Various Nanostructures to Enhance the Efficiency of Solar-Photon-Conversions.	
125 124 123	Encyclopedia of Nanotechnology. 2015, 1-18 Properties of ground state and spectrum of CdSe in different external electric fields. 2015, 64, 153102 CHAPTER 9:Organic Transistor Memory Devices and Materials. 2015, 295-329 A Review of Various Nanostructures to Enhance the Efficiency of Solar-Photon-Conversions. Advances in Environmental Engineering and Green Technologies Book Series, 2015, 277-312 O.4	

Organic/Inorganic Hybrid Solar Cells Based on Colloidal Quantum Dots. 2016, 89, 268-273 118 Encyclopedia of Nanotechnology. 2016, 1494-1500 117 Encyclopedia of Nanotechnology. 2016, 2747-2764 116 Photoluminescence Quenching and Recovery of the CdSe Nanocrystals by Metal Ions. 2016, 60, 131-136 115 Modification of Energy Band Gap in Natural Dye-Sensitized Tio2 Nano Particles. 2016, 1, 114 Solar Cells Based on Solael Films. 2017, 1-19 113 Colloidal Silicon Quantum Dots and Solar Cells. 2017, 1-27 112 O Optical excitations dynamics at hetero-interfaces fullerene/quantum dots. 2017, 111 AC Conductivity Study of CdSe Nanorods. 2018, 2, 110 Properties of highly dispersed cadmium telluride systems obtained by electrospray method. 2018, 109 53, 213-219 Enhanced Cellular Activity on Conducting Polymer. 2019, 150-189 108 Colloidal Silicon Quantum Dots and Solar Cells. 2019, 933-958 107 Self-assembly of Pd@Au core/shell nanosheets used as a highly sensitive SERS substrate based on 106 the determination of trace fluorescent dye. 2019, 110, 563-569 Bright and Stable Quantum Dot Light-Emitting Diodes. 2021, e2106276 105 17 Investigation of structural and optical properties of manganese doped zinc selenide quantum dots. 104 2020, One-pot synthesis of P3HTIdE (E=S, Se, Te) nanocomposites using conjugated polymer-grafted 103 precursors. 2020, 2, 04LT01 PREPARATION AND CHARACTERIZATION OF TiO2 FILMS OBTAINED BY ELECTRODEPOSITION ON 102 ITO AND ANNEALING TREATMENT. 2020, 7, 29-35 Synthesis of Novel Thienopyrimidines and Thienodiazepines from Ethyl 101 2,4-Diamino-5-{[(2E)-2-(1-phenylethylidene)hydrazino]carbonyl}thiophene-3-carboxylate. 2020, 100, 2108

100	Synthesis of PMMA-HoVO4 nanocomposites by emulsifier-free emulsion polymerization: radical effects. 2020 , 38, 143-150		
99	Role of electronegativity to induce magnetism in $ZnX1$ NYx (X = S/Se/Te and Y = Li/Be/B) chalcogenides.		
98	The theoretical investigation of the opto-electronic properties of designed molecules having 2-(2-Methylene-3-oxo-indane-1-ylidene)malononitrile as end-capped acceptors. 2021 , 235, 785-804		
97	The theoretical investigation of the opto-electronic properties of designed molecules having 2-(2-Methylene-3-oxo-indane-1-ylidene)malononitrile as end-capped acceptors. 2020 ,		
96	Hybrid Solar Cells. 79-100		
95	Photovoltaic Devices. 126-162		
94	Nanotechnology and Polymer Solar Cells. 231-253		
93	Nanotechnology for Photovoltaic Energy. 319-346		
92	Nanotechnology and Polymer Solar Cells. 384-405		
91	Hybrid Solar Cells. 1528-1549		
90	Modeling and Simulation of Polymer Solar Cells. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 439-472	0.4	1
89	Fluorescence spectroscopy of single CdSe nanocrystals. 2008 , 311-347		1
88	Investigation of Nanocrystalline Materials Using Radioactive Isotopes. 2008, 131-162		
87	Zinc Oxide as a Multifunctional Material: From Biomedical Applications to Energy Conversion and Electrochemical Sensing. <i>Environmental Chemistry for A Sustainable World</i> , 2021 , 251-305	0.8	O
86	Polymer electrets and their applications. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50406	2.9	8
85	Influence of laser energy in CdS/PSi solar cell. 2021 ,		
		· · · · · · · · · · · · · · · · · · ·	
84	Low Band Gap Polymer: Fullerene based Photodetector with Spectral Response from 350 nm to 850 nm. 2021 ,		0

82	Mechanics of controlled fragmentation by cold drawing. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 159, 104726	5		
81	Mediating Colloidal Quantum Dot/Organic Semiconductor Interfaces for Efficient Hybrid Solar Cells. <i>Advanced Energy Materials</i> , 2022 , 12, 2102689	21.8	5	
80	A correlation study between size and etching time in mesoporous Ge toward the incorporation of phonon dispersion effect in PCM. <i>Optical Materials</i> , 2022 , 123, 111861	3.3		
79	Self-assembled monolayers for interface engineering in polymer solar cells. <i>Journal of Polymer Science</i> ,	2.4	1	
78	Vacuum-Free Quantum Dots Planar Hybrid Solar Cells: Improving Charge Transport Using Reduced Graphene Oxide and PEO as the Buffer Layer. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1185	2.6	1	
77	Characteristics, properties, synthesis and advanced applications of 2D graphdiyne versus graphene. <i>Materials Chemistry Frontiers</i> ,	7.8	2	
76	A study on structural, optical, and electrical characteristics of perovskite CsPbBr QD/2D-TiSe nanosheet based nanocomposites for optoelectronic applications <i>Dalton Transactions</i> , 2022 ,	4.3		
75	Switchable photovoltaic effect in solar cells: Architecture, features, and future scope. 2022 , 161-184			
74	Graphene-based semiconductor nanocrystals for optoelectronics devices. 2022, 383-406			
73	Pyridine enhances the efficiency of 1D-CdS nanowire solar cells fabricated using novel organic dyes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 640, 128500	5.1		
72	Hole transport properties of some spiro-based materials for quantum dot sensitized solar devices. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 427, 113810	4.7	3	
71	Carbon Nanotubes for Solar Cells and Photovoltaics. 2021 , 1-31			
70	Commercialization of single-source precursors: Applications, intellectual property, and technology transfer. 2022 , 563-600			
69	Fabrication and catalytic applications of first row-transition metal and mixed-metal chalcogenides synthesized from single-source precursors. 2022 , 389-451			
68	Dynamic Light Scattering on Nanoparticles in Microgravity in a Drop Tower. <i>Microgravity Science and Technology</i> , 2022 , 34, 1	1.6	1	
67	Chemically Edge-Carboxylated Graphene Enhances the Thermal Conductivity of Polyetherimide-Graphene Nanocomposites ACS Applied Materials & amp; Interfaces, 2022,	9.5	2	
66	Study of the Chain Condensation Process from a Dilute to a Concentrated Solution and the Transformation of the Chain Conformation from a Solution to a Film for the Conjugated Polymer PFO ACS Omega, 2022, 7, 8498-8505	3.9		
65	Colloidal Bismuth Chalcohalide Nanocrystals. <i>Angewandte Chemie</i> ,	3.6	Ο	

64	Colloidal Bismuth Chalcohalide Nanocrystals Angewandte Chemie - International Edition, 2022,	16.4	2
63	Plasmon resonances of nanorods in transverse electromagnetic scattering. <i>Journal of Differential Equations</i> , 2022 , 318, 502-536	2.1	1
62	Multi-deformable piezoelectric energy nano-generator with high conversion efficiency for subtle body movements. <i>Nano Energy</i> , 2022 , 97, 107223	17.1	0
61	Development and advancement of undoped and doped zinc sulfide for phosphor application. <i>Displays</i> , 2022 , 74, 102186	3.4	1
60	Nematic Ordering of Anisotropic Nanoparticles in Block Copolymers. <i>Advanced Theory and Simulations</i> , 2022 , 5, 2100433	3.5	O
59	Nanowire GaSb Infrared Solar Cell. <i>Lecture Notes in Networks and Systems</i> , 2022 , 273-281	0.5	
58	Nanoparticle anisotropy induces sphere-to-cylinder phase transition in block copolymer melts <i>Soft Matter</i> , 2022 ,	3.6	O
57	Superior effect of edge relative to basal plane functionalization of graphene in enhancing polymer-graphene nanocomposite thermal conductivity [A combined molecular dynamics and Green functions study. <i>Physical Chemistry Chemical Physics</i> ,	3.6	1
56	High-Performance Visible Light Photodetector Based on 1D SnO2 Nanofibers with a Ti3C2Tx (MXene) Electron Transport Layer. <i>ACS Applied Nano Materials</i> ,	5.6	3
55	Electroactivity of the hybrid material composed of poly(3-hexylthiophene) and titania nanoparticles synthesized by electrochemical process. <i>Bulletin of Materials Science</i> , 2022 , 45, 1	1.7	1
54	Hybrid Time-Dependent Ginzburg-Landau Simulations of Block Copolymer Nanocomposites: Nanoparticle Anisotropy <i>Polymers</i> , 2022 , 14,	4.5	1
53	Ethylcellulose-Encapsulated Inorganic Lead Halide Perovskite Nanoparticles for Printing and Optoelectronic Applications. <i>Particle and Particle Systems Characterization</i> , 2100250	3.1	O
52	Single-Crystalline Pyramidal TiC Particles Grown by Biphase Diffusion Synthesis ACS Nano, 2022,	16.7	
51	Anharmonic phonon coupling and decay of optical phonons in polycrystalline CdSe thin films. <i>Ceramics International</i> , 2022 ,	5.1	O
50	A review on recent advances in metal chalcogenide-based photocatalysts for CO2 reduction. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107763	6.8	1
49	Polarization anisotropy losses due to morphological instability in CsPbX3 nanorods and strategies for mitigation. <i>Journal of Materials Chemistry C</i> ,	7.1	
48	Splitting and Concentration of Solar Spectrum using Compound Holographic Optical Element for Nanowire and Nanopillar Solar Cells. 2022 ,		
47	Influence of Zinc Oxide Nanostructure Morphology on its Photocatalytic Properties. <i>Current Nanoscience</i> , 2022 , 18,	1.4	

Polymer nanocomposites for microelectronic devices and biosensors. **2022**, 205-233

45	Solution-Processed Quantum-Dot Solar Cells. <i>Springer Handbooks</i> , 2022 , 1215-1266	1.3	O
44	Synthesis, X-ray structure, antimicrobial activity, DFT and molecular docking studies of N-(thiophen-2-ylmethyl)thiophene-2-carboxamide. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2022 , 78,	0.8	0
43	White Light Photosensitivity and Stable Photoresponse Properties of Tetrapod Shaped CdSe Nanocrystals: Polymer: Fullerene Blend. 2022 ,		
42	Enhanced acidic gas adsorption performance of arsenene by Pt mediation. AIP Advances, 2022, 12, 0757	10285	
41	Brominated Polythiophene Reduces the Efficiency-Stability-Cost Gap of Organic and Quantum Dot Hybrid Solar Cells. <i>Advanced Energy Materials</i> , 2201975	21.8	1
40	Effect of Surfactants on the Structure, Phase Composition, and Magnetic Properties of FexSy Nanoparticles Synthesized by Thermal Decomposition. 2022 , 17, 336-344		
39	Conjugated Block Copolymers for Functional Nanostructures. 2022 , 55, 2224-2234		2
38	Synthesis of Cesium Copper Bromide Nanorods with Strong Linearly Polarized Emission. 2201031		
37	Facile and Effective Syntheses of 2-Fluoro-3-alkoxythiophenes and Their Uses in Making Highly Regioregular Poly(3-alkoxythiophene)s via Transition-Metal-Free Cationic Chain-Growth Polymerization.		
36	EDrbital mediated charge transfer channels in a monolayer GrNiPc heterointerface unveiled by soft X-ray electron spectroscopies and DFT calculations. 2022 , 14, 13166-13177		1
35	Force-driven active dynamics of thin nanorods in unentangled polymer melts. 2022 , 18, 6582-6591		O
34	From Binary to Ternary Transition-Metal Nitrides: A Boost toward Nitrogen Magneto-Ionics. 2022 , 14, 44581-44590		2
33	Plasmonic Enhanced SERS in Ag/TiO2 Nanostructured Film: An Experimental and Theoretical Study. 2022 , 13, 1595		Ο
32	Ternary atoms alloy quantum dot assisted hole transport in thin film polymer solar cells. 2022 , 110999		1
31	Donor-acceptor organic nanostructure based on conjugated polymer for improving visible light driven photocatalytic activity towards degradation of dye in aqueous medium.		Ο
30	Recent advances in the synthesis of cyclic compounds using #dicyanoolefins as versatile vinylogous nucleophiles.		0
29	Ultrafast Relaxation Dynamics of Conjugated Polymer Nanoparticles by Tuning Their Interchain Interactions. 2022 , 126, 18177-18187		О

28	Hydrogen Plasma on Graphene Oxide to Produce Gradients of Oxygen-Containing Functional Groups for Self-Powered Devices.	O
27	An inverted architecture P3HT:CdSe bulk-heterojunction hybrid solar cell utilizing a quantum junction with high open circuit voltage and efficiency. 2022 , 8, 12979-12986	o
26	??????????????. 2022,	0
25	Three-Dimensional Nanopillar Arrays-Based Efficient and Flexible Perovskite Solar Cells with Enhanced Stability.	O
24	Surface-enhanced Raman spectroscopic activity study on topological ZnSe nanostructures. 10,	1
23	Carbon Nanotubes for Solar Cells and Photovoltaics. 2022 , 1419-1449	o
22	Lead Oxide Nanodots Synthesized by Solvothermal and Microwave Assisted Method and its Comparative Characterization. 2022 , 34, 3293-3298	0
21	Improving morphology of P3HT:PCBM bulk heterojunction solar cells with anisotropic shaped silica nanoparticles. 2022 ,	1
20	Near-Unity Photoluminescence Quantum Yield of Green-Emitting Graded-Alloy Core/Shell Giant Quantum Dots by z-Type Ligand Passivation for Display Applications. 2022 , 5, 18014-18022	O
19	Raman Snapshots of Side-Chain Dependent Polaron Dynamics in PolyThiophene Films.	O
18	Electric, magnetic, and shear field-directed assembly of inorganic nanoparticles.	0
17	Seed-mediated growth of gradient Culh@nB alloyed nanocrystals by balancing cation exchange and shelling reaction. 2023 , 257, 119656	O
16	Comparison and Analysis of the third generation of the solar cells. 27, 498-505	0
15	Nitrogen-Doped Nickel Graphene Core Shell Synthesis: Structural, Morphological, and Chemical Composition for Planar Hybrid Solar Cells Application. 2023 , 10, 18	O
14	Realizing the Ideal Structure for Hybrid Photovoltaics by Directly Electrochemical Polymerizing Thiophene between ZnO Nanorods. 2017 , 5, 10-16	0
13	Applications of quantum dots in energy conversion and storage devices. 2023, 383-419	O
12	ZnTe-Based Photodetectors for Visible-UV Spectral Region. 2023 , 281-300	0
11	Energy Transfer between CdZnS Quantum Dots and Perylene Diimide Dyes. 2023 , 127, 2116-2126	O

CITATION REPORT

10	Solution-Processed Photodetectors. 2023 , 427-452	О
9	Effect of surface defects on photoluminescence properties of CdSe quantum dots in glasses. 2023 , 622, 156931	О
8	Effects of Na2O on the optical properties of CdSe QDs embedded in glasses. 2023, 610, 122326	O
7	Review: Quantum Dot Light-Emitting Diodes.	1
6	Electronic Structure and Excited State Dynamics of Cadmium Chalcogenide Nanorods. 2023, 123, 3852-3903	O
5	PbS quantum dots-sensitized ZnO nanorods-based third generation solar cells. 2023 , 29, 101444	О
4	The Dielectric, Magnetic, and Ferroelectric Analysis of xNi0.5Co0.5Fe2O4:(1 ß)PANI Multiferroic Composites.	O
3	Enhancing decomposition of rhodamine (RhB) and methylene blue (MB) using CdS decorated with Ag or Ru driven by visible radiation.	O
2	A review on energy conversion applications of graphene-based nanomaterials and environmental remediation. 2023 ,	O
1	Nanoparticle Mediated Improved Crystallinity and Connectivity of Semiconducting Polymer Thin Films.	O