Taro Toyoda

List of Publications by Year
in descending order

125 papers	8,258 citations	71102 41 h-index	46799 89 g-index
129 all docs	129 docs citations	129 times ranked	8566 citing authors

#	Article	IF	Citations
1	CH₃NH₃Sn_{<i>x</i>}Pb_(1â€“<i>x</i>)I₃ Perovskite Solar Cells Covering up to 1060 nm. Journal of Physical Chemistry Letters, 2014, 5, 1004-1011.	4.6	852
2	Highly Luminescent Phase-Stable CsPbI₃ Perovskite Quantum Dots Achieving Near 100% Absolute Photoluminescence Quantum Yield. ACS Nano, 2017, 11, 10373-10383.	14.6	748
3	Recombination in Quantum Dot Sensitized Solar Cells. Accounts of Chemical Research, 2009, 42, 1848-1857.	15.6	747
4	High efficiency of CdSe quantum-dot-sensitized TiO2 inverse opal solar cells. Applied Physics Letters, 2007, 91, .	3.3	442
5	Improving the performance of colloidal quantum-dot-sensitized solar cells. Nanotechnology, 2009, 20, 295204.	2.6	383
6	Effect of ZnS coating on the photovoltaic properties of CdSe quantum dot-sensitized solar cells. Journal of Applied Physics, 2008, 103, .	2.5	369
7	Colloidal Synthesis of Air-Stable Alloyed CsSn_{1â€“<i>x</i>}Pb_{<i>x</i>}I₃ Perovskite Nanocrystals for Use in Solar Cells. Journal of the American Chemical Society, 2017, 139, 16708-16719.	13.7	314
8	Uncovering the role of the ZnS treatment in the performance of quantum dot sensitized solar cells. Physical Chemistry Chemical Physics, 2011, 13, 12024.	2.8	217
9	Suppression of Charge Carrier Recombination in Lead-Free Tin Halide Perovskite via Lewis Base Post-treatment. Journal of Physical Chemistry Letters, 2019, 10, 5277-5283.	4.6	196
10	All-Solid Perovskite Solar Cells with HOCO-R-NH₃⁺I^{â€“} Anchor-Group Inserted between Porous Titania and Perovskite. Journal of Physical Chemistry C, 2014, 118, 16651-16659.	3.1	191
11	Photosensitization of nanostructured TiO2 with CdSe quantum dots: effects of microstructure and electron transport in TiO2 substrates. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 164, 75-80.	3.9	130
12	Sensitization of Titanium Dioxide Photoanodes with Cadmium Selenide Quantum Dots Prepared by SILAR: Photoelectrochemical and Carrier Dynamics Studies. Journal of Physical Chemistry C, 2010, 114, 21928-21937.	3.1	120
13	CdSe quantum dot-sensitized solar cell employing TiO2 nanotube working-electrode and Cu2S counter-electrode. Applied Physics Letters, 2010, 97, .	3.3	118
14	Highly Efficient 17.6% Tinâ€“Lead Mixed Perovskite Solar Cells Realized through Spike Structure. Nano Letters, 2018, 18, 3600-3607.	9.1	114
15	Strain Relaxation and Light Management in Tinâ€“Lead Perovskite Solar Cells to Achieve High Efficiencies. ACS Energy Letters, 2019, 4, 1991-1998.	17.4	114
16	GeI₂ Additive for High Optoelectronic Quality CsPbI₃ Quantum Dots and Their Application in Photovoltaic Devices. Chemistry of Materials, 2019, 31, 798-807.	6.7	112
17	Effect of the conduction band offset on interfacial recombination behavior of the planar perovskite solar cells. Nano Energy, 2018, 53, 17-26.	16.0	110
18	Quantum-Dot-Sensitized Solar Cells: Effect of Nanostructured TiO₂ Morphologies on Photovoltaic Properties. Journal of Physical Chemistry Letters, 2012, 3, 1885-1893.	4.6	101

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19	Relationship between Lattice Strain and Efficiency for Sn-Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 31105-31110.	8.0	101
20	Direct Correlation between Ultrafast Injection and Photoanode Performance in Quantum Dot Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 22352-22360.	3.1	97
21	Photoacoustic and photoelectrochemical characterization of CdSe-sensitized TiO2 electrodes composed of nanotubes and nanowires. Thin Solid Films, 2006, 499, 299-305.	1.8	88
22	Charge transfer and recombination at the metal oxide/CH₃NH₃PbClI₂/spiro-OMeTAD interfaces: uncovering the detailed mechanism behind high efficiency solar cells. Physical Chemistry Chemical Physics, 2014, 16, 19984-19992.	2.8	88
23	Facile Synthesis and Characterization of Sulfur Doped Low Bandgap Bismuth Based Perovskites by Soluble Precursor Route. Chemistry of Materials, 2016, 28, 6436-6440.	6.7	87
24	Optical absorption, charge separation and recombination dynamics in Sn/Pb cocktail perovskite solar cells and their relationships to photovoltaic performances. Journal of Materials Chemistry A, 2015, 3, 9308-9316.	10.3	85
25	High reduction of interfacial charge recombination in colloidal quantum dot solar cells by metal oxide surface passivation. Nanoscale, 2015, 7, 5446-5456.	5.6	82
26	Ultrafast Electron Injection from Photoexcited Perovskite CsPbI₃ QDs into TiO₂ Nanoparticles with Injection Efficiency near 99%. Journal of Physical Chemistry Letters, 2018, 9, 294-297.	4.6	75
27	Characterization of electron transfer from CdSe quantum dots to nanostructured TiO2 electrode using a near-field heterodyne transient grating technique. Thin Solid Films, 2008, 516, 5927-5930.	1.8	68
28	Characterization of Nanostructured TiO2Electrodes Sensitized with CdSe Quantum Dots Using Photoacoustic and Photoelectrochemical Current Methods. Japanese Journal of Applied Physics, 2004, 43, 2946-2951.	1.5	67
29	Effect of ZnS coatings on the enhancement of the photovoltaic properties of PbS quantum dot-sensitized solar cells. Journal of Applied Physics, 2012, 111, .	2.5	66
30	Investigation of Interfacial Charge Transfer in Solution Processed Cs₂SnI₆ Thin Films. Journal of Physical Chemistry C, 2017, 121, 13092-13100.	3.1	66
31	Effect of nanostructured electrode architecture and semiconductor deposition strategy on the photovoltaic performance of quantum dot sensitized solar cells. Electrochimica Acta, 2012, 75, 139-147.	5.2	62
32	Slow hot carrier cooling in cesium lead iodide perovskites. Applied Physics Letters, 2017, 111, .	3.3	56
33	Photoexcited hole dynamics in TiO2 nanocrystalline films characterized using a lens-free heterodyne detection transient grating technique. Chemical Physics Letters, 2006, 419, 464-468.	2.6	53
34	Optical Absorption, Photoelectrochemical, and Ultrafast Carrier Dynamic Investigations of TiO2Electrodes Composed of Nanotubes and Nanowires Sensitized with CdSe Quantum Dots. Japanese Journal of Applied Physics, 2006, 45, 5569-5574.	1.5	51
35	Optical absorption, photosensitization, and ultrafast carrier dynamic investigations of CdSe quantum dots grafted onto nanostructured SnO2 electrode and fluorine-doped tin oxide (FTO) glass. Chemical Physics Letters, 2007, 442, 89-96.	2.6	51
36	Studies of optical absorption and electron transport in nanocrystalline TiO2 electrodes. Thin Solid Films, 2003, 438-439, 167-170.	1.8	50

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37	Understanding charge transfer and recombination by interface engineering for improving the efficiency of PbS quantum dot solar cells. Nanoscale Horizons, 2018, 3, 417-429.	8.0	50
38	Effect of sensitization by quantum-sized CdS on photoacoustic and photoelectrochemical current spectra of porous TiO2 electrodes. Review of Scientific Instruments, 2003, 74, 297-299.	1.3	45
39	Study of ultrafast carrier dynamics of nanostructured TiO2 films with and without CdSe quantum dot deposition using lens-free heterodyne detection transient grating technique. Thin Solid Films, 2005, 486, 15-19.	1.8	45
40	Air Stable PbSe Colloidal Quantum Dot Heterojunction Solar Cells: Ligand-Dependent Exciton Dissociation, Recombination, Photovoltaic Property, and Stability. Journal of Physical Chemistry C, 2016, 120, 28509-28518.	3.1	45
41	Ex Situ CdSe Quantum Dot-Sensitized Solar Cells Employing Inorganic Ligand Exchange To Boost Efficiency. Journal of Physical Chemistry C, 2014, 118, 214-222.	3.1	44
42	Growth of Amorphous Passivation Layer Using Phenethylammonium Iodide for Highâ€Performance Inverted Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900243.	5.8	43
43	Photoacoustic and Photoelectrochemical Characterization of Inverse Opal TiO2Sensitized with CdSe Quantum Dots. Japanese Journal of Applied Physics, 2006, 45, 5563-5568.	1.5	41
44	Dependence of thermal conductivity of porous silicon on porosity characterized by photoacoustic technique. Review of Scientific Instruments, 2003, 74, 601-603.	1.3	39
45	Photoacoustic and photoelectrochemical current spectra of combined CdS/CdSe quantum dots adsorbed on nanostructured TiO2 electrodes, together with photovoltaic characteristics. Journal of Applied Physics, 2010, 108, .	2.5	39
46	Solutionâ€Processed Airâ€Stable Copper Bismuth Iodide for Photovoltaics. ChemSusChem, 2018, 11, 2930-2935.	6.8	39
47	Lead Selenide Colloidal Quantum Dot Solar Cells Achieving High Open-Circuit Voltage with One-Step Deposition Strategy. Journal of Physical Chemistry Letters, 2018, 9, 3598-3603.	4.6	38
48	Nearâ€Infrared Emission from Tinâ€"Lead (Snâ€"Pb) Alloyed Perovskite Quantum Dots by Sodium Doping. Angewandte Chemie - International Edition, 2020, 59, 8421-8424.	13.8	38
49	Optical absorption and ultrafast carrier dynamics characterization of CdSe quantum dots deposited on different morphologies of nanostructured TiO2 films. Materials Science and Engineering C, 2007, 27, 1514-1520.	7.3	37
50	Multiple electron injection dynamics in linearly-linked two dye co-sensitized nanocrystalline metal oxide electrodes for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2012, 14, 4605.	2.8	35
51	Improvement of Photovoltaic Performance of Colloidal Quantum Dot Solar Cells Using Organic Small Molecule as Hole-Selective Layer. Journal of Physical Chemistry Letters, 2017, 8, 2163-2169.	4.6	35
52	Apparent band-gap energies of mixed TiO2 nanocrystals with anatase and rutile structures characterized with photoacoustic spectroscopy. Review of Scientific Instruments, 2003, 74, 782-784.	1.3	34
53	Huge suppression of charge recombination in P3HTâ€"ZnO organicâ€"inorganic hybrid solar cells by locating dyes at the ZnO/P3HT interfaces. Physical Chemistry Chemical Physics, 2013, 15, 14370.	2.8	33
54	Ligand-dependent exciton dynamics and photovoltaic properties of PbS quantum dot heterojunction solar cells. Physical Chemistry Chemical Physics, 2017, 19, 6358-6367.	2.8	31

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55	Trioctylphosphine Oxide Acts as Alkahest for SnX₂/PbX₂: A General Synthetic Route to Perovskite ASn_{<i>x</i>}Pb_{1â€"<i>x</i>}X₃ (A = Cs, FA, MA; X =) Tj ETQq1 1 0.784314 rg	6.7	31
56	Studies on the effect of UV irradiation on Mn-doped ZnS nanoparticles. Materials Science and Engineering C, 2005, 25, 761-765.	7.3	30
57	Separation of ultrafast photoexcited electron and hole dynamics in CdSe quantum dots adsorbed onto nanostructured TiO2 films. Applied Physics Letters, 2010, 97, .	3.3	30
58	Photoacoustic spectra of Au quantum dots adsorbed on nanostructured TiO2 electrodes together with the photoelectrochemical current characteristics. Journal of Applied Physics, 2009, 105, .	2.5	29
59	Architecture of the Interface between the Perovskite and Holeâ€Transport Layers in Perovskite Solar Cells. ChemSusChem, 2016, 9, 2634-2639.	6.8	27
60	Photoacoustic and Photocurrent Studies of Highly Porous TiO2Electrodes Sensitized by Quantum-Sized CdS. Japanese Journal of Applied Physics, 1999, 38, 3185-3186.	1.5	26
61	Ultrafast carrier dynamics in PbS quantum dots. Chemical Physics Letters, 2012, 542, 89-93.	2.6	26
62	Electronic structures of two types of TiO₂ electrodes: inverse opal and nanoparticulate cases. RSC Advances, 2015, 5, 49623-49632.	3.6	26
63	Dependences of the optical absorption and photovoltaic properties of CdS quantum dot-sensitized solar cells on the CdS quantum dot adsorption time. Journal of Applied Physics, 2011, 110, .	2.5	25
64	The cause for the low efficiency of dye sensitized solar cells with a combination of ruthenium dyes and cobalt redox. Physical Chemistry Chemical Physics, 2015, 17, 10170-10175.	2.8	24
65	Recombination Suppression in PbS Quantum Dot Heterojunction Solar Cells by Energy-Level Alignment in the Quantum Dot Active Layers. ACS Applied Materials & Interfaces, 2018, 10, 26142-26152.	8.0	24
66	Enhanced Device Performance with Passivation of the TiO₂ Surface Using a Carboxylic Acid Fullerene Monolayer for a SnPb Perovskite Solar Cell with a Normal Planar Structure. ACS Applied Materials & Interfaces, 2020, 12, 17776-17782.	8.0	24
67	Crystal Growth of CdSe Quantum Dots Adsorbed on Nanoparticle, Inverse Opal, and Nanotube TiO₂ Photoelectrodes Characterized by Photoacoustic Spectroscopy. Japanese Journal of Applied Physics, 2007, 46, 4616.	1.5	22
68	Multiple exciton generation in cluster-free alloy Cd_xHg_{1â^'x}Te colloidal quantum dots synthesized in water. Physical Chemistry Chemical Physics, 2014, 16, 25710-25722.	2.8	22
69	The Electronic Structure and Photoinduced Electron Transfer Rate of CdSe Quantum Dots on Single Crystal Rutile TiO₂: Dependence on the Crystal Orientation of the Substrate. Journal of Physical Chemistry C, 2016, 120, 2047-2057.	3.1	22
70	Detection of non-absorbing charge dynamics via refractive index change in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 5975.	2.8	20
71	Ultrafast characterization of the electron injection from CdSe quantum dots and dye N719 co-sensitizers into TiO2 using sulfide based ionic liquid for enhanced long term stability. Electrochimica Acta, 2013, 100, 35-43.	5.2	20
72	Interface Passivation Effects on the Photovoltaic Performance of Quantum Dot Sensitized Inverse Opal TiO2 Solar Cells. Nanomaterials, 2018, 8, 460.	4.1	20

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73	Photoacoustic Spectra of Mixed TiO2Ultrafine Powders with Rutile and Anatase Structures. Japanese Journal of Applied Physics, 2001, 40, 3587-3590.	1.5	19
74	Uncovering the charge transfer and recombination mechanism in ZnS-coated PbS quantum dot sensitized solar cells. Solar Energy, 2015, 122, 307-313.	6.1	19
75	The interparticle distance limit for multiple exciton dissociation in PbS quantum dot solid films. Nanoscale Horizons, 2019, 4, 445-451.	8.0	19
76	Improving Photovoltaic Performance of ZnO Nanowires Based Colloidal Quantum Dot Solar Cells via SnO2 Passivation Strategy. Frontiers in Energy Research, 2019, 7, .	2.3	19
77	The effect of ultraviolet irradiation on the photothermal, photoluminescence and photoluminescence excitation spectra of Mn-doped ZnS nanoparticles. Thin Solid Films, 2006, 499, 104-109.	1.8	18
78	Carrier dynamics in quantum-dot sensitized solar cells measured by transient grating and transient absorption methods. Physical Chemistry Chemical Physics, 2013, 15, 11006.	2.8	18
79	Effect of electrolyte constituents on the motion of ionic species and recombination kinetics in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2014, 16, 5242.	2.8	17
80	Photoacoustic and Photoelectrochemical Current Response of Nanostructured TiO2Electrodes. Japanese Journal of Applied Physics, 2003, 42, 3036-3040.	1.5	14
81	Role of lithium and co-existing cations in electrolyte to improve performance of dye-sensitized solar cells. RSC Advances, 2014, 4, 21517-21520.	3.6	14
82	Optical absorption of CdSe quantum dots on electrodes with different morphology. AIP Advances, 2013, 3, 102115.	1.3	12
83	Photoacoustic Spectroscopy of Polyaniline Films. Japanese Journal of Applied Physics, 1995, 34, 2907-2910.	1.5	11
84	Photoacoustic and Photoelectrochemical Characterization of CdSe Quantum Dots Grafted onto Fluorine-Doped Tin Oxide (FTO) Substrate. Japanese Journal of Applied Physics, 2005, 44, 4465-4468.	1.5	11
85	Terahertz reflection response measurement using a phonon polariton wave. Journal of Applied Physics, 2009, 105, 054902.	2.5	11
86	Adsorption and Electronic Structure of CdSe Quantum Dots on Single Crystal ZnO: A Basic Study of Quantum Dot-Sensitization System. Journal of Physical Chemistry C, 2016, 120, 16367-16376.	3.1	11
87	Photoacoustic Response to X-Ray Absorption in Copper and Brass. Japanese Journal of Applied Physics, 1990, 29, L1723-L1726.	1.5	10
88	Dependence of the Photoacoustic Signal Intensity on Modulation Frequency for CdInGaS4Crystals under a Transmission Detection Configuration. Japanese Journal of Applied Physics, 2000, 39, 511-512.	1.5	10
89	Effect of rutile-type content on nanostructured anatase-type TiO2 electrode sensitized with CdSe quantum dots characterized with photoacoustic and photoelectrochemical current spectroscopies. Materials Science and Engineering C, 2005, 25, 853-857.	7.3	10
90	Effect of TiO2 Crystal Orientation on the Adsorption of CdSe Quantum Dots for Photosensitization Studied by the Photoacoustic and Photoelectron Yield Methods. Journal of Physical Chemistry C, 2014, 118, 16680-16687.	3.1	10

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91	Effect of defects in TiO2 nanotube thin film on the photovoltaic properties of quantum dot-sensitized solar cells. Thin Solid Films, 2015, 590, 90-97.	1.8	10
92	The effect of CdS on the charge separation and recombination dynamics in PbS/CdS double-layered quantum dot sensitized solar cells. Chemical Physics, 2016, 478, 159-163.	1.9	10
93	Nearâ€Infrared Emission from Tinâ€“Lead (Snâ€“Pb) Alloyed Perovskite Quantum Dots by Sodium Doping. Angewandte Chemie, 2020, 132, 8499-8502.	2.0	10
94	Photoacoustic and Photoelectrochemical Current Spectra of Highly Porous, Polycrystalline TiO2Films Fabricated with Different Applied Voltage Treatments. Japanese Journal of Applied Physics, 2002, 41, 3367-3370.	1.5	9
95	Correlation between crystal growth and photosensitization of nanostructured TiO2 electrodes using supporting Ti substrates by self-assembled CdSe quantum dots. Thin Solid Films, 2008, 516, 2426-2431.	1.8	9
96	Photoacoustic spectra on Mn-doped zinc silicate powders by evacuated sealed silica tube method. Journal of Materials Science, 2008, 43, 378-383.	3.7	9
97	Characterization of hot carrier cooling and multiple exciton generation dynamics in PbS QDs using an improved transient grating technique. Journal of Energy Chemistry, 2015, 24, 712-716.	12.9	9
98	Ultra-Halide-Rich Synthesis of Stable Pure Tin-Based Halide Perovskite Quantum Dots: Implications for Photovoltaics. ACS Applied Nano Materials, 2021, 4, 3958-3968.	5.0	9
99	Hard xâ€ray absorption spectroscopy of CuO and Cu2O with a photoacoustic detector. Applied Physics Letters, 1991, 59, 3657-3659.	3.3	8
100	Carrier dynamics in porous silicon studied with a near-field heterodyne transient grating method. Chemical Physics Letters, 2006, 427, 192-196.	2.6	8
101	Effect of Voltage Treatment on Modulation Frequency Dependence of the Photoacoustic and Photoelectrochemical Current Spectra of Highly Porous, Polycrystalline TiO2Electrodes. Japanese Journal of Applied Physics, 2001, 40, 3583-3586.	1.5	7
102	Photoacoustic and Photoluminescence Characterization of Passivated and Unpassivated Mn-Doped ZnS Nanoparticles. Japanese Journal of Applied Physics, 2005, 44, 4354-4357.	1.5	6
103	The influence of chemical post-etching and UV irradiation on the optical absorption and thermal diffusivity of porous silicon studied by photoacoustic technique. Thin Solid Films, 2006, 499, 161-167.	1.8	6
104	Characterization of Photoexcited Carriers and Thermal Properties of Nanoparticulate TiO₂ Film Using Heterodyne Transient Grating Method. Japanese Journal of Applied Physics, 2012, 51, 042601.	1.5	6
105	Dependences of the Optical Absorption, Ground State Energy Level, and Interfacial Electron Transfer Dynamics on the Size of CdSe Quantum Dots Adsorbed on the (001), (110), and (111) Surfaces of Single Crystal Rutile TiO₂. Journal of Physical Chemistry C, 2017, 121, 25390-25401.	3.1	6
106	Pb-free Sn Perovskite Solar Cells Doped with Samarium Iodide. Chemistry Letters, 2019, 48, 836-839.	1.3	6
107	In-Depth Exploration of the Charge Dynamics in Surface-Passivated ZnO Nanowires. Journal of Physical Chemistry C, 2020, 124, 15812-15817.	3.1	6
108	Characterization of Photoexcited Carriers and Thermal Properties of Nanoparticulate TiO₂Film Using Heterodyne Transient Grating Method. Japanese Journal of Applied Physics, 2012, 51, 042601.	1.5	6

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109	The Effect of Transparent Conductive Oxide Substrate on the Efficiency of SnGe-perovskite Solar Cells. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 597-602.	0.3	5
110	Hot-injection and ultrasonic irradiation syntheses of Cs2SnI6 quantum dot using Sn long-chain amino-complex. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	5
111	Electron dynamics in GaN wafers with an inhomogeneous distribution of defects in the depth direction. Journal of Applied Physics, 2009, 106, .	2.5	4
112	Photoacoustic spectroscopy of TiO₂nanotube electrode adsorbed with CdSe quantum dots and its photovoltaic properties. Japanese Journal of Applied Physics, 2014, 53, 07KB08.	1.5	3
113	Crystal Growth, Exponential Optical Absorption Edge, and Ground State Energy Level of PbS Quantum Dots Adsorbed on the (001), (110), and (111) Surfaces of Rutile-TiO₂. Journal of Physical Chemistry C, 2018, 122, 13590-13599.	3.1	3
114	Anisotropic Crystal Growth, Optical Absorption, and Ground-State Energy Level of CdSe Quantum Dots Adsorbed on the (001) and (102) Surfaces of Anatase-TiO₂: Quantum Dot-Sensitization System. Journal of Physical Chemistry C, 2018, 122, 29200-29209.	3.1	3
115	The Dynamics of Multiple Exciton Generation in Semiconductor Quantum Dots. Lecture Notes in Nanoscale Science and Technology, 2014, , 295-310.	0.8	3
116	Growth Mechanism of ZnO Thin Films Grown by Spray Pyrolysis Using Diethylzinc Solution. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700406.	1.8	2
117	Effect of voltage treatment applied on photoacoustic and photoelectrochemical current spectra in final preparation processes of porous TiO2 electrodes. Review of Scientific Instruments, 2003, 74, 337-339.	1.3	1
118	Exposure time dependence of the photoacoustic and photoluminescence intensities of porous silicon with different wavelengths of excitation light. Review of Scientific Instruments, 2003, 74, 869-871.	1.3	1
119	Relationship between the catalytic activity of Pt/alumina and the relaxation process of the photoexcited electrons. Applied Surface Science, 2012, 263, 230-235.	6.1	1
120	Exponential optical absorption edge in PbS quantum dot-ligand systems on single crystal rutile-TiO₂ revealed by photoacoustic and absorbance spectroscopies. Materials Research Express, 2022, 9, 025005.	1.6	1
121	Multiple electron injection from dyes to titania layer for high efficiency-dye-sensitized solar cells. , 2011, , .		0
122	Relationship between perovsktie solar cell efficiency and lattice disordering. Japanese Journal of Applied Physics, 2021, 60, 035001.	1.5	0
123	Semiconductor Quantum Dot-Sensitized Solar Cells Employing TiO2 Nanostructured Photoanodes with Different Morphologies. , 2012, , 317-349.		0
124	Introduction of "spike-like" conduction band of TiO2 compact layer for perovskite solar cells. , 0, , .		0
125	Surface Coatings for Improving Solar Cell Efficiencies. , 2019, , .		0