Arthur J Nozik

List of Publications by Year
in descending order

241 papers	35,658 citations	4370 86 h-index	3094 187 g-index
244 all docs	244 docs citations	244 times ranked	24610 citing authors

#	Article	IF	Citations
1	Special Issue â€œSelected Papers from the 5nd Edition of Global Conference on Catalysis, Chemical Engineering and Technology (CAT 2019)â€. Catalysts, 2021, 11, 65.	1.6	0
2	Quantization effects in semiconductor nanostructures and singlet fission in molecular chromophores for photovoltaics and solar fuels. Chemical Physics Reviews, 2021, 2, .	2.6	7
3	Size-Dependent Janus-Ligand Shell Formation on PbS Quantum Dots. Journal of Physical Chemistry C, 2021, 125, 21729-21739.	1.5	3
4	Nanotechnology for catalysis and solar energy conversion. Nanotechnology, 2021, 32, 042003.	1.3	44
5	Theoretical limits of multiple exciton generation and singlet fission tandem devices for solar water splitting. Journal of Chemical Physics, 2019, 151, 114111.	1.2	13
6	Designing Janus Ligand Shells on PbS Quantum Dots using Ligandâ€“Ligand Cooperativity. ACS Nano, 2019, 13, 3839-3846.	7.3	23
7	Utilizing hot electrons. Nature Energy, 2018, 3, 170-171.	19.8	40
8	Enhanced Multiple Exciton Generation in PbS | CdS Janus-like Heterostructured Nanocrystals. ACS Nano, 2018, 12, 10084-10094.	7.3	56
9	Optical Absorbance Enhancement in PbS QD/Cinnamate Ligand Complexes. Journal of Physical Chemistry Letters, 2018, 9, 3425-3433.	2.1	36
10	Tuning colloidal quantum dot band edge positions through solution-phase surface chemistry modification. Nature Communications, 2017, 8, 15257.	5.8	230
11	Synthesis and Spectroscopy of Silver-Doped PbSe Quantum Dots. Journal of the American Chemical Society, 2017, 139, 10382-10394.	6.6	58
12	In situ spectroscopic characterization of a solution-phase X-type ligand exchange at colloidal lead sulphide quantum dot surfaces. Chemical Communications, 2016, 52, 13893-13896.	2.2	36
13	Site-Selective Passivation of Defects in NiO Solar Photocathodes by Targeted Atomic Deposition. ACS Applied Materials & Interfaces, 2016, 8, 4754-4761.	4.0	71
14	Multiple exciton generation in quantum dots versus singlet fission in molecular chromophores for solar photon conversion. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140412.	1.6	37
15	Quantum Confined Electronâ€“Phonon Interaction in Silicon Nanocrystals. Nano Letters, 2015, 15, 1511-1516.	4.5	50
16	Exploration of Metal Chloride Uptake for Improved Performance Characteristics of PbSe Quantum Dot Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 2892-2899.	2.1	43
17	Compositionally-tunable mechanochemical synthesis of Zn_xCo_{3â^'x}O₄ nanoparticles for mesoporous p-type photocathodes. Journal of Materials Chemistry A, 2015, 3, 21990-21994.	5.2	14
18	The promise and challenge of nanostructured solar cells. Nature Nanotechnology, 2014, 9, 951-954.	15.6	181

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19	Synthesis and Spectroscopy of PbSe Fused Quantum-Dot Dimers. Journal of the American Chemical Society, 2014, 136, 4670-4679.	6.6	32
20	Sensitized Zincâ€“Cobaltâ€“Oxide Spinel p-Type Photoelectrode. Journal of Physical Chemistry C, 2014, 118, 25340-25349.	1.5	16
21	Carrier Transport in PbS and PbSe QD Films Measured by Photoluminescence Quenching. Journal of Physical Chemistry C, 2014, 118, 16228-16235.	1.5	50
22	Two Thin Film Polymorphs of the Singlet Fission Compound 1,3-Diphenylisobenzofuran. Journal of Physical Chemistry C, 2014, 118, 12121-12132.	1.5	85
23	The Role of Chromophore Coupling in Singlet Fission. Accounts of Chemical Research, 2013, 46, 1290-1299.	7.6	235
24	Third Generation Photovoltaics based on Multiple Exciton Generation in Quantum Confined Semiconductors. Accounts of Chemical Research, 2013, 46, 1252-1260.	7.6	340
25	Toward Designed Singlet Fission: Solution Photophysics of Two Indirectly Coupled Covalent Dimers of 1,3-Diphenylisobenzofuran. Journal of Physical Chemistry B, 2013, 117, 4680-4695.	1.2	117
26	Size and Composition Dependent Multiple Exciton Generation Efficiency in PbS, PbSe, and PbS_xSe_{1â€“x} Alloyed Quantum Dots. Nano Letters, 2013, 13, 3078-3085.	4.5	149
27	Multiple exciton generation in semiconductor quantum dots and electronically coupled quantum dot arrays for application to thirdgeneration photovoltaic solar cells. , 2013, , 112-147.		2
28	Effect of Solar Concentration on the Thermodynamic Power Conversion Efficiency of Quantum-Dot Solar Cells Exhibiting Multiple Exciton Generation. Journal of Physical Chemistry Letters, 2012, 3, 2857-2862.	2.1	62
29	Novel Micropixelation Strategy to Stabilize Semiconductor Photoelectrodes for Solar Water Splitting Systems. Journal of Physical Chemistry C, 2012, 116, 19262-19267.	1.5	5
30	Separating multiple excitons. Nature Photonics, 2012, 6, 272-273.	15.6	18
31	Control of PbSe Quantum Dot Surface Chemistry and Photophysics Using an Alkylselenide Ligand. ACS Nano, 2012, 6, 5498-5506.	7.3	99
32	Next Generation Photovoltaics Based on Multiple Exciton Generation in Quantum Dot Solar Cells. Springer Series in Optical Sciences, 2012, , 191-207.	0.5	6
33	Comparison of Carrier Multiplication Yields in PbS and PbSe Nanocrystals: The Role of Competing Energy-Loss Processes. Nano Letters, 2012, 12, 622-628.	4.5	113
34	Measurement of the electron antineutrino mass in tritium beta decay in the Troitsk nu-mass experiment. Physics of Atomic Nuclei, 2012, 75, 464-478.	0.1	24
35	Emission Quenching in PbSe Quantum Dot Arrays by Short-Term Air Exposure. Journal of Physical Chemistry Letters, 2011, 2, 889-893.	2.1	51
36	Upper limit on the electron antineutrino mass from the Troitsk experiment. Physical Review D, 2011, 84, .	1.6	267

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37	Correlation between Photooxidation and the Appearance of Raman Scattering Bands in Lead Chalcogenide Quantum Dots. Journal of Physical Chemistry Letters, 2011, 2, 599-603.	2.1	35
38	Quantum Dot Size Dependent Jâ^'V Characteristics in Heterojunction ZnO/PbS Quantum Dot Solar Cells. Nano Letters, 2011, 11, 1002-1008.	4.5	277
39	Peak External Photocurrent Quantum Efficiency Exceeding 100% via MEG in a Quantum Dot Solar Cell. Science, 2011, 334, 1530-1533.	6.0	1,511
40	Anomalous Independence of Multiple Exciton Generation on Different Group IVâ^'VI Quantum Dot Architectures. Nano Letters, 2011, 11, 1623-1629.	4.5	61
41	n-Type Transition Metal Oxide as a Hole Extraction Layer in PbS Quantum Dot Solar Cells. Nano Letters, 2011, 11, 3263-3266.	4.5	258
42	Comparing Photosynthetic and Photovoltaic Efficiencies and Recognizing the Potential for Improvement. Science, 2011, 332, 805-809.	6.0	1,369
43	Tuning the Synthesis of Ternary Lead Chalcogenide Quantum Dots by Balancing Precursor Reactivity. ACS Nano, 2011, 5, 183-190.	7.3	125
44	Effect of surface passivation on dopant distribution in Si quantum dots: The case of B and P doping. Applied Physics Letters, 2011, 98, .	1.5	26
45	Absolute Photoluminescence Quantum Yields of IR-26 Dye, PbS, and PbSe Quantum Dots. Journal of Physical Chemistry Letters, 2010, 1, 2445-2450.	2.1	256
46	Stability Assessment on a 3% Bilayer PbS/ZnO Quantum Dot Heterojunction Solar Cell. Advanced Materials, 2010, 22, 3704-3707.	11.1	351
47	Flowing versus Static Conditions for Measuring Multiple Exciton Generation in PbSe Quantum Dots. Journal of Physical Chemistry C, 2010, 114, 17486-17500.	1.5	95
48	Third generation photovoltaics: Multiple Exciton Generation in colloidal quantum dots, quantum dot arrays, and quantum dot solar cells. , 2010, , .		1
49	Toward Designed Singlet Fission: Electronic States and Photophysics of 1,3-Diphenylisobenzofuran. Journal of Physical Chemistry A, 2010, 114, 1457-1473.	1.1	98
50	Singlet Exciton Fission for Solar Cell Applications: Energy Aspects of Interchromophore Coupling. Journal of Physical Chemistry B, 2010, 114, 14223-14232.	1.2	126
51	Nanoscience and Nanostructures for Photovoltaics and Solar Fuels. Nano Letters, 2010, 10, 2735-2741.	4.5	413
52	Comparing Multiple Exciton Generation in Quantum Dots To Impact Ionization in Bulk Semiconductors: Implications for Enhancement of Solar Energy Conversion. Nano Letters, 2010, 10, 3019-3027.	4.5	329
53	High Triplet Yield from Singlet Fission in a Thin Film of 1,3-Diphenylisobenzofuran. Journal of the American Chemical Society, 2010, 132, 16302-16303.	6.6	236
54	Introduction to Solar Photon Conversion. Chemical Reviews, 2010, 110, 6443-6445.	23.0	201

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55	Quantum Dots and Quantum Dot Arrays. , 2010, , 311-367.		0
56	Solar cells based on colloidal quantum dot solids: Seeking enhanced photocurrent. , 2009, , .		4
57	Making the most of photons. Nature Nanotechnology, 2009, 4, 548-549.	15.6	39
58	Nanoscale design to enable the revolution in renewable energy. Energy and Environmental Science, 2009, 2, 559.	15.6	348
59	Variations in the Quantum Efficiency of Multiple Exciton Generation for a Series of Chemically Treated PbSe Nanocrystal Films. Nano Letters, 2009, 9, 836-845.	4.5	219
60	Multiple exciton generation in semiconductor quantum dots. Chemical Physics Letters, 2008, 457, 3-11.	1.2	632
61	Structural, Optical, and Electrical Properties of Self-Assembled Films of PbSe Nanocrystals Treated with 1,2-Ethanedithiol. ACS Nano, 2008, 2, 271-280.	7.3	693
62	Investigation of space-charge effects in gaseous tritium as a source of distortions of the beta spectrum observed in the Troitsk neutrino-mass experiment. Physics of Atomic Nuclei, 2008, 71, 427-436.	0.1	15
63	Structural, Optical, and Electrical Properties of PbSe Nanocrystal Solids Treated Thermally or with Simple Amines. Journal of the American Chemical Society, 2008, 130, 5974-5985.	6.6	407
64	Ultrafast Exciton Fine Structure Relaxation Dynamics in Lead Chalcogenide Nanocrystals. Nano Letters, 2008, 8, 1374-1381.	4.5	38
65	FUNDAMENTALS AND APPLICATIONS OF QUANTUM-CONFINED STRUCTURES. Series on Photoconversion of Solar Energy, 2008, , 147-207.	0.2	2
66	Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. Progress in Solid State Chemistry, 2008, 36, 1-133.	3.9	58
67	Schottky Solar Cells Based on Colloidal Nanocrystal Films. Nano Letters, 2008, 8, 3488-3492.	4.5	882
68	Determining the Internal Quantum Efficiency of PbSe Nanocrystal Solar Cells with the Aid of an Optical Model. Nano Letters, 2008, 8, 3904-3910.	4.5	166
69	Nanostructured and Photoelectrochemical Systems for Solar Photon Conversion. Series on Photoconversion of Solar Energy, 2008, , .	0.2	68
70	Solar Cells Based on Quantum Dots: Multiple Exciton Generation and Intermediate Bands. MRS Bulletin, 2007, 32, 236-241.	1.7	215
71	Multiple Exciton Generation in Films of Electronically Coupled PbSe Quantum Dots. Nano Letters, 2007, 7, 1779-1784.	4.5	230
72	Toward singlet fission for excitonic solar cells. Proceedings of SPIE, 2007, , .	0.8	14

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73	Multiple Exciton Generation in Colloidal Silicon Nanocrystals. Nano Letters, 2007, 7, 2506-2512.	4.5	794
74	Solar Energy Conversion Processes in Nanostructured Materials Studied via Time-Resolved THz Spectroscopy. , 2007, , .		0
75	Multiple Exciton Generation in Silicon Nanocrystals. , 2007, , .		2
76	Quantum Structured Solar Cells. , 2006, , 485-516.		9
77	Multiexciton Generation by a Single Photon in Nanocrystals. Nano Letters, 2006, 6, 2856-2863.	4.5	287
78	Nanocrystalline TiO2Solar Cells Sensitized with InAs Quantum Dotsâ€. Journal of Physical Chemistry B, 2006, 110, 25451-25454.	1.2	443
79	Self-Assembly of Linear Arrays of Semiconductor Nanoparticles on Carbon Single-Walled Nanotubesâ€. Journal of Physical Chemistry B, 2006, 110, 25153-25157.	1.2	26
80	Singlet Fission for Dye-Sensitized Solar Cells:Â Can a Suitable Sensitizer Be Found?. Journal of the American Chemical Society, 2006, 128, 16546-16553.	6.6	375
81	Autobiography and Scientific History of Arthur J. Nozik. Journal of Physical Chemistry B, 2006, 110, 25126-25132.	1.2	0
82	Time-Resolved Photoconductivity of PbSe Nanocrystal Arraysâ€. Journal of Physical Chemistry B, 2006, 110, 25455-25461.	1.2	120
83	Solar conversion efficiency of photovoltaic and photoelectrolysis cells with carrier multiplication absorbers. Journal of Applied Physics, 2006, 100, 074510.	1.1	1,289
84	PbTe Colloidal Nanocrystals:Â Synthesis, Characterization, and Multiple Exciton Generation. Journal of the American Chemical Society, 2006, 128, 3241-3247.	6.6	660
85	A direct measurement of g-factors in IIâ€“VI and IIIâ€“V coreâ€“shell nanocrystals. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 26, 9-13.	1.3	7
86	Highly Efficient Multiple Exciton Generation in Colloidal PbSe and PbS Quantum Dots. Nano Letters, 2005, 5, 865-871.	4.5	1,548
87	Synthesis and Characterization of III-V Rod Shape Semiconductor Nanocrystals. Materials Science Forum, 2005, 494, 121-128.	0.3	0
88	Ultrafast photoresponse of metallic and semiconducting single-wall carbon nanotubes. Physical Review B, 2005, 71, .	1.1	26
89	Analysis of photoluminescence from solubilized single-walled carbon nanotubes. Physical Review B, 2005, 71, .	1.1	95
90	Electron and Hole Transfer from Indium Phosphide Quantum Dots. Journal of Physical Chemistry B, 2005, 109, 2625-2631.	1.2	118

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91	Charge Separation in Heterostructures of InP Nanocrystals with Metal Particles. Journal of Physical Chemistry B, 2005, 109, 18243-18249.	1.2	15
92	Exciton Multiplication and Relaxation Dynamics in Quantum Dots:Â Applications to Ultrahigh-Efficiency Solar Photon Conversionâ€. Inorganic Chemistry, 2005, 44, 6893-6899.	1.9	303
93	Absorption Cross-Section and Related Optical Properties of Colloidal InAs Quantum Dots. Journal of Physical Chemistry B, 2005, 109, 7084-7087.	1.2	151
94	GaInP2 overgrowth and passivation of colloidal InP nanocrystals using metalorganic chemical vapor deposition. Applied Physics Letters, 2004, 84, 780-782.	1.5	14
95	Colloidal InP/ZnS coreâ€“shell nanocrystals studied by linearly and circularly polarized photoluminescence. Chemical Physics, 2004, 297, 93-98.	0.9	27
96	Size Dependent Femtosecond Electron Cooling Dynamics in CdSe Quantum Rods. Nano Letters, 2004, 4, 1089-1092.	4.5	52
97	Growth of InP Nanostructures via Reaction of Indium Droplets with Phosphide Ions:Â Synthesis of InP Quantum Rods and InPâ^'TiO2Composites. Journal of the American Chemical Society, 2004, 126, 2632-2639.	6.6	76
98	Photoenhancement of Luminescence in Colloidal CdSe Quantum Dot Solutions. Journal of Physical Chemistry B, 2003, 107, 11346-11352.	1.2	328
99	Experimental and theoretical investigation of electronic structure in colloidal indium phosphide quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1229-1232.	0.8	2
100	Electronic Coupling in InP Nanoparticle Arrays. Nano Letters, 2003, 3, 1695-1699.	4.5	84
101	Synthesis and Characterization of Colloidal InP Quantum Rods. Nano Letters, 2003, 3, 833-837.	4.5	88
102	Electron Transfer Dynamics in Quantum Dot/Titanium Dioxide Composites Formed by in Situ Chemical Bath Deposition. Journal of Physical Chemistry B, 2003, 107, 14154-14157.	1.2	117
103	Editorial Note to the Arnim Henglein Festschrift. Journal of Physical Chemistry B, 2003, 107, 7225-7225.	1.2	0
104	Electron Relaxation in Colloidal InP Quantum Dots with Photogenerated Excitons or Chemically Injected Electrons. Journal of Physical Chemistry B, 2003, 107, 102-109.	1.2	90
105	Theoretical and experimental investigation of electronic structure and relaxation of colloidal nanocrystalline indium phosphide quantum dots. Physical Review B, 2003, 67, .	1.1	28
106	Size-dependent Raman study of InP quantum dots. Applied Physics Letters, 2003, 82, 185-187.	1.5	108
107	Continuous-Wave and Time-Resolved Optically Detected Magnetic Resonance Studies of Nonetched/Etched InP Nanocrystals. Journal of Physical Chemistry B, 2002, 106, 1606-1612.	1.2	54
108	Excitation Energy Dependent Efficiency of Charge Carrier Relaxation and Photoluminescence in Colloidal InP Quantum Dots. Journal of Physical Chemistry B, 2002, 106, 7758-7765.	1.2	79

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109	Future directions in solid state chemistry: report of the NSF-sponsored workshop. Progress in Solid State Chemistry, 2002, 30, 1-101.	3.9	24
110	Colloidal quantum dots of IIIâ€“V semiconductors. , 2002, , 183-205.		4
111	Quantum dot solar cells. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 115-120.	1.3	2,193
112	Electron and Hole Adducts Formed in Illuminated InP Colloidal Quantum Dots Studied by Electron Paramagnetic Resonance. Journal of Physical Chemistry B, 2002, 106, 4390-4395.	1.2	49
113	Theoretical Studies of Electronic State Localization and Wormholes in Silicon Quantum Dot Arrays. Nano Letters, 2001, 1, 36-41.	4.5	23
114	Fluorescence Intermittency in Single InP Quantum Dots. Nano Letters, 2001, 1, 557-564.	4.5	99
115	Excited State Relaxation Mechanisms in InP colloidal Quantum Dots.. Materials Research Society Symposia Proceedings, 2001, 667, 1.	0.1	0
116	Anomalies in the linear absorption, transient absorption, photoluminescence and photoluminescence excitation spectroscopies of colloidal InP quantum dots. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 142, 187-195.	2.0	25
117	Synthesis of extremely small InP quantum dots and electronic coupling in their disordered solid films. Applied Physics Letters, 2001, 78, 4022-4024.	1.5	198
118	SPECTROSCOPY ANDHOTELECTRONRELAXATIONDYNAMICS INSEMICONDUCTORQUANTUMWELLS ANDQUANTUMDOTS. Annual Review of Physical Chemistry, 2001, 52, 193-231.	4.8	714
119	Three-Dimensional Confinement in the Conduction Band Structure of InP. Physical Review Letters, 2000, 84, 4168-4171.	2.9	20
120	Coreâ^'Shell Quantum Dots of Lattice-Matched ZnCdSe2Shells on InP Cores:Â Experiment and Theory. Journal of Physical Chemistry B, 2000, 104, 12149-12156.	1.2	122
121	Two color blinking of single strain-induced GaAs quantum dots. Applied Physics Letters, 1999, 74, 2666-2668.	1.5	42
122	Synthesis, structure, and optical properties of colloidal GaN quantum dots. Applied Physics Letters, 1999, 75, 478-480.	1.5	148
123	Femtosecond IR Study of Excited-State Relaxation and Electron-Injection Dynamics of Ru(dcbpy)2(NCS)2in Solution and on Nanocrystalline TiO2and Al2O3Thin Films. Journal of Physical Chemistry B, 1999, 103, 3110-3119.	1.2	385
124	Ultrafast Electrochemical Charge-transfer Reactions at IIIâ€"V Semiconductor-Molecule Interfaces. Zeitschrift Fur Physikalische Chemie, 1999, 213, 117-128.	1.4	5
125	Fast Electron Transfer Across Semiconductorâ^'Molecule Interfaces:â€‰ GaAs/Co(Cp)2+/0. Journal of Physical Chemistry B, 1999, 103, 2122-2141.	1.2	48
126	A Wave Packet Model for Electron Transfer and Its Implications for the Semiconductorâ^'Liquid Interface. Journal of Physical Chemistry B, 1999, 103, 9915-9932.	1.2	13

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127	Anti-Stokes photoluminescence in colloidal semiconductor quantum dots. Applied Physics Letters, 1999, 75, 971-973.	1.5	125
128	Sub-picosecond Injection of Electrons from Excited [Ru(2,2â€²-bipy-4,4â€²-dicarboxy)₂(SCN)₂] into TiO₂ Using Transient Mid-Infrared Spectroscopy*. Zeitschrift Fur Physikalische Chemie, 1999, 212, 77-84.	1.4	23
129	Dynamics of Electron Injection in Nanocrystalline Titanium Dioxide Films Sensitized with [Ru(4,4â€˜-dicarboxy-2,2â€˜-bipyridine)2(NCS)2] by Infrared Transient Absorption. Journal of Physical Chemistry B, 1998, 102, 6455-6458.	1.2	292
130	Allen J. Bard Festschrift A Personal Note. Journal of Physical Chemistry B, 1998, 102, 9745-9745.	1.2	0
131	Photosensitization of Nanoporous TiO2 Electrodes with InP Quantum Dots. Langmuir, 1998, 14, 3153-3156.	1.6	566
132	Optical, Electronic, and Structural Properties of Uncoupled and Close-Packed Arrays of InP Quantum Dots. Journal of Physical Chemistry B, 1998, 102, 9791-9796.	1.2	223
133	Colloidal Quantum Dots of III-V Semiconductors. MRS Bulletin, 1998, 23, 24-30.	1.7	63
134	Excited-state spectroscopy of InP quantum dots. Physical Review B, 1998, 57, R4265-R4268.	1.1	46
135	Quantum well and superlattice electrodes. Studies in Surface Science and Catalysis, 1997, , 135-160.	1.5	2
136	Charge Recombination in Dye-Sensitized Nanocrystalline TiO2Solar Cells. Journal of Physical Chemistry B, 1997, 101, 2576-2582.	1.2	930
137	Electron Transfer Rate Constants for Majority Electrons at GaAs and GaInP2Semiconductorâ^'Liquid Interfaces. Journal of Physical Chemistry B, 1997, 101, 7038-7042.	1.2	33
138	Theoretical Studies of Electron Transfer and Electron Localization at the Semiconductorâ^'Liquid Interface. Journal of Physical Chemistry B, 1997, 101, 2459-2475.	1.2	45
139	Biography: Heinz Gerischer. Journal of Physical Chemistry B, 1997, 101, 2391-2391.	1.2	0
140	Hot carrier solar cells. , 1997, , .		9
141	MOCVD growth and optical characterization of strain-induced quantum dots with InP island stressors. Journal of Crystal Growth, 1997, 174, 605-610.	0.7	14
142	Size-Dependent Spectroscopy of InP Quantum Dots. Journal of Physical Chemistry B, 1997, 101, 4904-4912.	1.2	396
143	Physical Chemistry of Semiconductorâ^'Liquid Interfaces. The Journal of Physical Chemistry, 1996, 100, 13061-13078.	2.9	851
144	Highly efficient bandâ€edge emission from InP quantum dots. Applied Physics Letters, 1996, 68, 3150-3152.	1.5	277

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145	On the Marcus model of electron transfer at immiscible liquid interfaces and its application to the semiconductor/liquid interface. Chemical Physics, 1996, 205, 245-267.	0.9	30
146	Study of electron transfer at semiconductor-liquid interfaces addressing the full system electronic structure. Chemical Physics, 1996, 205, 47-72.	0.9	29
147	Synthesis and characterization of binary and ternary IIIâ€“V quantum dots. Journal of Luminescence, 1996, 70, 95-107.	1.5	88
148	The heterojunction for studying photoinduced charge transfer processes. Applied Surface Science, 1996, 106, 396-401.	3.1	6
149	Observation of the quantum confined ground state in InP quantum dots at 300 K. Applied Physics Letters, 1996, 68, 304-306.	1.5	33
150	Martin Karplus Editorial Note. The Journal of Physical Chemistry, 1996, 100, 2457-2457.	2.9	0
151	Comment on thermodynamic aspects of photochemical solar energy conversion. Solar Energy Materials and Solar Cells, 1995, 38, 73-74.	3.0	2
152	Electron transfer dynamics. Solar Energy Materials and Solar Cells, 1995, 38, 327-329.	3.0	3
153	Comment on photoelectrochemistry. Solar Energy Materials and Solar Cells, 1995, 38, 321-322.	3.0	0
154	Ideal Behavior at Illuminated Semiconductor-Liquid Junctions. The Journal of Physical Chemistry, 1995, 99, 7871-7874.	2.9	13
155	Synthesis and Characterization of InP, GaP, and GaInP2 Quantum Dots. The Journal of Physical Chemistry, 1995, 99, 7754-7759.	2.9	290
156	Ultrafast Photoinduced Electron Transfer across Semiconductor-Liquid Interfaces in the Presence of Electric Fields. The Journal of Physical Chemistry, 1994, 98, 2739-2741.	2.9	34
157	Photogenerated carrier dynamics under the influence of electric fields in III-V semiconductors. Physical Review B, 1994, 50, 1746-1754.	1.1	29
158	Study of the Schottky barrier and determination of the energetic positions of band edges at the n- and p-type gallium indium phosphide electrode | electrolyte interface. Journal of Electroanalytical Chemistry, 1994, 367, 27-30.	1.9	39
159	Synthesis and Characterization of InP Quantum Dots. The Journal of Physical Chemistry, 1994, 98, 4966-4969.	2.9	447
160	The effect of electric fields on timeâ€resolved photoluminescence spectra in semiconductors. Journal of Applied Physics, 1994, 75, 4255-4257.	1.1	9
161	Hot electron cooling in parabolic and modulation doped quantum wells and doped superlattices. Superlattices and Microstructures, 1993, 13, 459.	1.4	4
162	Gerhard L. Closs Memorial Issue - Notes and Preface. The Journal of Physical Chemistry, 1993, 97, 13029-13035.	2.9	1

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163	Hot-carrier cooling in GaAs: Quantum wells versus bulk. Physical Review B, 1993, 48, 14675-14678.	1.1	220
164	Existence of a light intensity threshold for photoconversion processes. The Journal of Physical Chemistry, 1993, 97, 13441-13443.	2.9	17
165	Synthesis and characterization of surface-modified colloidal cadmium telluride quantum dots. The Journal of Physical Chemistry, 1993, 97, 11999-12003.	2.9	378
166	Recombination dynamics at indium phosphide/liquid interfaces. The Journal of Physical Chemistry, 1993, 97, 10421-10429.	2.9	26
167	GaAs Quantum Dots. Israel Journal of Chemistry, 1993, 33, 15-20.	1.0	18
168	Investigation of the L6-X6intervalley scattering in AlxGa1-xAs by measuring hot carrier dynamics in a K not=0 satellite valley. Semiconductor Science and Technology, 1992, 7, B173-B175.	1.0	0
169	Investigation of hot-carrier relaxation in quantum well and bulk GaAs at high carrier densities. Semiconductor Science and Technology, 1992, 7, B337-B339.	1.0	13
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171	Comparison of hot-carrier relaxation in quantum wells and bulk GaAs at high carrier densities. Physical Review B, 1992, 45, 1450-1453.	1.1	94
172	L6-X6intervalley scattering time and deformation potential forAl0.6Ga0.4As determined by femtosecond time-resolved infrared absorption spectroscopy. Physical Review Letters, 1992, 68, 662-665.	2.9	17
173	Hot-carrier relaxation in quantum well and bulk GaAs at high carrier densities: femtoseconds to nanoseconds. , 1992, 1677, 260.		4
174	Hot carrier dynamics in a K=0 satellite valley in Al x Ga 1-x As. , 1992, , .		0
175	Effect of Al mole fraction on decay profile of photoinduced IR absorption and the determination of the critical value of x c for Al x Ga 1-x As. , 1992, , .		0
176	Optical properties of gallium arsenide nanocrystals. The Journal of Physical Chemistry, 1992, 96, 1156-1160.	2.9	84
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178	Mechanistic studies of the photocatalytic behavior of titania: particles in a photoelectrochemical slurry cell and the relevance to photodetoxification reactions. The Journal of Physical Chemistry, 1991, 95, 221-225.	2.9	160
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