

Peter C Searson

List of Publications by Year in descending order

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235
papers

19,237
citations

12303

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13338

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246
all docs

246
docs citations

246
times ranked

23428
citing authors

#	ARTICLE	IF	CITATIONS
1	The physics of cancer: the role of physical interactions and mechanical forces in metastasis. <i>Nature Reviews Cancer</i> , 2011, 11, 512-522.	12.8	1,038
2	Multifunctional nanorods for gene delivery. <i>Nature Materials</i> , 2003, 2, 668-671.	13.3	700
3	In Vitro Tumor Models: Advantages, Disadvantages, Variables, and Selecting the Right Platform. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 12.	2.0	531
4	A perinuclear actin cap regulates nuclear shape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 19017-19022.	3.3	511
5	Large Magnetoresistance of Electrodeposited Single-Crystal Bismuth Thin Films. <i>Science</i> , 1999, 284, 1335-1337.	6.0	484
6	ZnO quantum particle thin films fabricated by electrophoretic deposition. <i>Applied Physics Letters</i> , 1999, 74, 2939-2941.	1.5	461
7	The blood-brain barrier: an engineering perspective. <i>Frontiers in Neuroengineering</i> , 2013, 6, 7.	4.8	458
8	State-of-the-art in design rules for drug delivery platforms: Lessons learned from FDA-approved nanomedicines. <i>Journal of Controlled Release</i> , 2014, 187, 133-144.	4.8	434
9	Electron Transport in Porous Nanocrystalline TiO ₂ Photoelectrochemical Cells. <i>The Journal of Physical Chemistry</i> , 1996, 100, 17021-17027.	2.9	394
10	Pseudohalogens for Dye-Sensitized TiO ₂ Photoelectrochemical Cells. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6867-6873.	1.2	356
11	Electrochemical deposition of metals onto silicon. <i>Journal Physics D: Applied Physics</i> , 1998, 31, 1927-1949.	1.3	352
12	Growth Kinetics of Nanocrystalline ZnO Particles from Colloidal Suspensions. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7770-7775.	1.2	339
13	SiH _x excitation: An alternate mechanism for porous Si photoluminescence. <i>Physical Review B</i> , 1992, 45, 13788-13791.	1.1	333
14	The Growth Kinetics of TiO ₂ Nanoparticles from Titanium(IV) Alkoxide at High Water/Titanium Ratio. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1734-1738.	1.2	308
15	Influence of solvent on the growth of ZnO nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2003, 263, 454-460.	5.0	302
16	Perpendicular giant magnetoresistance of multilayered Co/Cu nanowires. <i>Physical Review B</i> , 1995, 51, 7381-7384.	1.1	285
17	Magnetic Alignment of Fluorescent Nanowires. <i>Nano Letters</i> , 2001, 1, 155-158.	4.5	279
18	Quantifying Electrochemical Nucleation and Growth of Nanoscale Clusters Using Real-Time Kinetic Data. <i>Nano Letters</i> , 2006, 6, 238-242.	4.5	248

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19	Epitaxial Assembly in Aged Colloids. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2177-2182.	1.2	244
20	Single Nanoporous Gold Nanowire Sensors. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4318-4322.	1.2	237
21	Fabrication of Nanoporous Nickel by Electrochemical Dealloying. <i>Chemistry of Materials</i> , 2004, 16, 3125-3129.	3.2	222
22	Quenching of Growth of ZnO Nanoparticles by Adsorption of Octanethiol. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6985-6990.	1.2	213
23	Relationship between Absorbance Spectra and Particle Size Distributions for Quantum-Sized Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10412-10415.	1.2	212
24	Synthesis and Characterization of Nanoporous Gold Nanowires. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4494-4499.	1.2	205
25	Structural and magneto-transport properties of electrodeposited bismuth nanowires. <i>Applied Physics Letters</i> , 1998, 73, 1436-1438.	1.5	195
26	Magnetic trapping and self-assembly of multicomponent nanowires. <i>Journal of Applied Physics</i> , 2002, 91, 8549.	1.1	163
27	Influence of Organic Capping Ligands on the Growth Kinetics of ZnO Nanoparticles. <i>Langmuir</i> , 2001, 17, 8362-8367.	1.6	152
28	In Situ Study of the Growth Kinetics of Individual Island Electrodeposition of Copper. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7862-7868.	1.2	147
29	Determination of the Particle Size Distribution of Quantum Nanocrystals from Absorbance Spectra. <i>Advanced Materials</i> , 2003, 15, 1289-1291.	11.1	141
30	Human iPSC-derived blood-brain barrier microvessels: validation of barrier function and endothelial cell behavior. <i>Biomaterials</i> , 2019, 190-191, 24-37.	5.7	141
31	The Influence of Anion on the Coarsening Kinetics of ZnO Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2003, 107, 3124-3130.	1.2	135
32	Multi-component nanorods for vaccination applications. <i>Nanotechnology</i> , 2005, 16, 484-487.	1.3	135
33	Island growth in electrodeposition. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 443001.	1.3	133
34	Use of AC Impedance Technique in Studies on Steel in Concrete in Immersed Conditions. <i>Corrosion Engineering Science and Technology</i> , 1981, 16, 102-106.	0.3	131
35	On the influence of the nucleation overpotential on island growth in electrodeposition. <i>Electrochimica Acta</i> , 2010, 55, 4086-4091.	2.6	131
36	Coarsening of metal oxide nanoparticles. <i>Physical Review E</i> , 2002, 66, 011403.	0.8	130

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37	Human astrocytes develop physiological morphology and remain quiescent in a novel 3D matrix. <i>Biomaterials</i> , 2015, 42, 134-143.	5.7	129
38	Review: in vitro microvessel models. <i>Lab on A Chip</i> , 2015, 15, 4242-4255.	3.1	121
39	Effect of shear stress on iPSC-derived human brain microvascular endothelial cells (dhBMECs). <i>Fluids and Barriers of the CNS</i> , 2017, 14, 20.	2.4	120
40	Fabrication of nanoporous gold nanowires. <i>Applied Physics Letters</i> , 2002, 81, 4437-4439.	1.5	118
41	Electrochemical Deposition of Copper on Si/TiN . <i>Journal of the Electrochemical Society</i> , 1999, 146, 1436-1441.	1.3	117
42	The morphology and nucleation kinetics of copper islands during electrodeposition. <i>Surface Science</i> , 2006, 600, 1817-1826.	0.8	116
43	Nanomedicines for cancer therapy: state-of-the-art and limitations to pre-clinical studies that hinder future developments. <i>Frontiers in Chemistry</i> , 2014, 2, 69.	1.8	116
44	The Formation, Morphology, and Optical Properties of Porous Silicon Structures. <i>Journal of the Electrochemical Society</i> , 1992, 139, 3373-3377.	1.3	115
45	Nucleation and Growth of Copper on TiN from Pyrophosphate Solution. <i>Journal of the Electrochemical Society</i> , 2001, 148, C41.	1.3	111
46	Pore morphology and the mechanism of pore formation in p^+ -type silicon. <i>Journal of Applied Physics</i> , 1992, 72, 253-258.	1.1	110
47	Particle Codeposition in Nanocomposite Films. <i>Journal of the Electrochemical Society</i> , 2000, 147, 2572.	1.3	110
48	Human Brain Microvascular Endothelial Cells Derived from the BC1 iPS Cell Line Exhibit a Blood-Brain Barrier Phenotype. <i>PLoS ONE</i> , 2016, 11, e0152105.	1.1	110
49	Live-Cell Imaging of Invasion and Intravasation in an Artificial Microvessel Platform. <i>Cancer Research</i> , 2014, 74, 4937-4945.	0.4	109
50	Analysis of Electrochemical Noise Generated by Corroding Electrodes under Open-Circuit Conditions. <i>Journal of the Electrochemical Society</i> , 1988, 135, 1908-1915.	1.3	108
51	Synthesis of ZnO Nanoparticles in 2-Propanol by Reaction with Water. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11209-11214.	1.2	107
52	Batteries and charge storage devices based on electronically conducting polymers. <i>Journal of Materials Research</i> , 2010, 25, 1561-1574.	1.2	107
53	Brain microvascular endothelial cells resist elongation due to curvature and shear stress. <i>Scientific Reports</i> , 2014, 4, 4681.	1.6	106
54	Benchmarking in vitro tissue-engineered blood-brain barrier models. <i>Fluids and Barriers of the CNS</i> , 2018, 15, 32.	2.4	105

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55	Wearable Devices for Precision Medicine and Health State Monitoring. IEEE Transactions on Biomedical Engineering, 2019, 66, 1242-1258.	2.5	102
56	Magnetic Tweezers Measurement of Single Molecule Torque. Nano Letters, 2009, 9, 1720-1725.	4.5	101
57	An all-polymer charge storage device. Applied Physics Letters, 1997, 71, 1582-1584.	1.5	97
58	CuInSe/ZnS Core/Shell NIR Quantum Dots for Biomedical Imaging. Small, 2011, 7, 3148-3152.	5.2	97
59	The role of astrocytes in the progression of brain cancer: complicating the picture of the tumor microenvironment. Tumor Biology, 2016, 37, 61-69.	0.8	97
60	The Anodic Dissolution of Silicon in HF Solutions. Journal of the Electrochemical Society, 1990, 137, 2539-2546.	1.3	96
61	Quantitative Analysis of the Enhanced Permeation and Retention (EPR) Effect. PLoS ONE, 2015, 10, e0123461.	1.1	88
62	High Charge Density Conducting Polymer/Graphite Fiber Composite Electrodes for Battery Applications. Journal of the Electrochemical Society, 1995, 142, 321-325.	1.3	87
63	Human brain microvascular endothelial cells resist elongation due to shear stress. Microvascular Research, 2015, 99, 8-18.	1.1	84
64	Functional brain-specific microvessels from iPSC-derived human brain microvascular endothelial cells: the role of matrix composition on monolayer formation. Fluids and Barriers of the CNS, 2018, 15, 7.	2.4	83
65	Role of iPSC-derived pericytes on barrier function of iPSC-derived brain microvascular endothelial cells in 2D and 3D. Fluids and Barriers of the CNS, 2019, 16, 15.	2.4	82
66	Microluminescence depth profiles and annealing effects in porous silicon. Applied Physics Letters, 1992, 60, 3295-3297.	1.5	76
67	Oriented assembly of anisotropic particles by capillary interactions. Soft Matter, 2009, 5, 886-890.	1.2	75
68	Kinetics of Particle Codeposition of Nanocomposites. Journal of the Electrochemical Society, 2002, 149, C610.	1.3	73
69	Analysis of the Photoelectrochemical Response of the Passive Film on Iron in Neutral Solutions. Journal of the Electrochemical Society, 1988, 135, 1358-1363.	1.3	72
70	Directed Assembly of Multisegment Au/Pt/Au Nanowires. Nano Letters, 2004, 4, 1163-1165.	4.5	72
71	Influence of stress on the photoluminescence of porous silicon structures. Applied Physics Letters, 1992, 60, 2285-2287.	1.5	71
72	Direct Copper Electrodeposition on TaN Barrier Layers. Journal of the Electrochemical Society, 2003, 150, C362.	1.3	70

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73	Magnetic anisotropy in prismatic nickel nanowires. <i>Applied Physics Letters</i> , 2001, 79, 4429-4431.	1.5	69
74	Potential Modulated Multilayer Deposition of Multisegment Cu/Ni Nanowires with Tunable Magnetic Properties. <i>Chemistry of Materials</i> , 2006, 18, 1595-1601.	3.2	69
75	A Tissue-Engineered 3D Microvessel Model Reveals the Dynamics of Mosaic Vessel Formation in Breast Cancer. <i>Cancer Research</i> , 2020, 80, 4288-4301.	0.4	69
76	Electrochemistry of Gold Deposition on n-Si(100). <i>Journal of the Electrochemical Society</i> , 2000, 147, 2199.	1.3	68
77	Micromagnetic behavior of electrodeposited Ni/Cu multilayer nanowires. <i>Journal of Applied Physics</i> , 2003, 93, 8253-8255.	1.1	68
78	Wearable Potentiometric Chloride Sweat Sensor: The Critical Role of the Salt Bridge. <i>Analytical Chemistry</i> , 2016, 88, 12241-12247.	3.2	68
79	Rotation and Alignment of Anisotropic Particles on Nonplanar Interfaces. <i>Langmuir</i> , 2008, 24, 9302-9307.	1.6	67
80	“Small Blood Vessels: Big Health Problems?” Scientific Recommendations of the National Institutes of Health Workshop. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	67
81	Tissue-engineered blood-brain barrier models via directed differentiation of human induced pluripotent stem cells. <i>Scientific Reports</i> , 2019, 9, 13957.	1.6	67
82	Fabrication and magnetic properties of fcc CoXPt _{1-x} nanowires. <i>Applied Physics Letters</i> , 2004, 84, 3900-3902.	1.5	66
83	Effect of surface treatment on SrTiO ₃ : An X-ray photoelectron spectroscopic study. <i>Journal of Applied Physics</i> , 1991, 69, 459-462.	1.1	65
84	Porous silicon membranes. <i>Applied Physics Letters</i> , 1991, 59, 832-833.	1.5	64
85	Influence of Additives on Nucleation and Growth of Copper on n-Si(111) from Acidic Sulfate Solutions. <i>Journal of the Electrochemical Society</i> , 2002, 149, C94.	1.3	64
86	Electronic Cortisol Detection Using an Antibody-Embedded Polymer Coupled to a Field-Effect Transistor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16233-16237.	4.0	62
87	A wearable potentiometric sensor with integrated salt bridge for sweat chloride measurement. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 673-678.	4.0	60
88	Highly Efficient Macromolecule-Sized Poration of Lipid Bilayers by a Synthetically Evolved Peptide. <i>Journal of the American Chemical Society</i> , 2014, 136, 4724-4731.	6.6	59
89	Leakage kinetics of the liposomal chemotherapeutic agent Doxil: The role of dissolution, protonation, and passive transport, and implications for mechanism of action. <i>Journal of Controlled Release</i> , 2018, 269, 171-176.	4.8	59
90	Electrochemical nucleation and growth of gold on silicon. <i>Surface Science</i> , 2000, 446, 103-111.	0.8	58

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91	Tuning the response of magnetic suspensions. <i>Applied Physics Letters</i> , 2003, 82, 3310-3312.	1.5	57
92	Sweat test for cystic fibrosis: Wearable sweat sensor vs. standard laboratory test. <i>Journal of Cystic Fibrosis</i> , 2018, 17, e35-e38.	0.3	57
93	Electrodeposited magnetic nanowires: arrays, field-induced assembly, and surface functionalization. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 249, 146-155.	1.0	56
94	Electrochemical Characterization of Adsorption-Desorption of the Cuprous-Suppressor-Chloride Complex during Electrodeposition of Copper. <i>Journal of the Electrochemical Society</i> , 2006, 153, C258.	1.3	56
95	Engineering the human blood-brain barrier in vitro. <i>Journal of Biological Engineering</i> , 2017, 11, 37.	2.0	56
96	Electrochemical Deposition of Platinum from Aqueous Ammonium Hexachloroplatinate Solution. <i>Journal of the Electrochemical Society</i> , 2005, 152, C738.	1.3	55
97	Electrodeposition of Copper on Silicon from Sulfate Solution. <i>Journal of the Electrochemical Society</i> , 2001, 148, C746.	1.3	52
98	Orientation of a Nanocylinder at a Fluid Interface. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4283-4290.	1.2	52
99	FIB/TEM Characterization of the Composition and Structure of Core/Shell Cu ⁺ Ni Nanowires. <i>Nano Letters</i> , 2008, 8, 2166-2170.	4.5	52
100	Molecular Imprinting of Maltose Binding Protein: Tuning Protein Recognition at the Molecular Level. <i>Macromolecules</i> , 2011, 44, 3966-3972.	2.2	51
101	The role of mutations associated with familial neurodegenerative disorders on blood-brain barrier function in an iPSC model. <i>Fluids and Barriers of the CNS</i> , 2019, 16, 20.	2.4	51
102	The electrical response of bilayers to the bee venom toxin melittin: Evidence for transient bilayer permeabilization. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1357-1364.	1.4	50
103	Electrochemical nucleation and growth of copper on Si(111). <i>Surface Science</i> , 2001, 492, 115-124.	0.8	49
104	In Situ Measurements of Interface States at Silicon Surfaces in Fluoride Solutions. <i>Physical Review Letters</i> , 1996, 76, 1521-1524.	2.9	46
105	Characterization of antimicrobial peptide activity by electrochemical impedance spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 2430-2436.	1.4	46
106	Influence of Oxide Thickness on Nucleation and Growth of Copper on Tantalum. <i>Journal of the Electrochemical Society</i> , 2004, 151, C369.	1.3	45
107	Electrochemical Synthesis of 3D Ordered Ferromagnetic Nickel Replicas Using Self-Assembled Colloidal Crystal Templates. <i>Chemistry of Materials</i> , 2004, 16, 5027-5032.	3.2	44
108	Electrochemical Template Synthesis of Multisegment Nanowires: Fabrication and Protein Functionalization. <i>Langmuir</i> , 2006, 22, 10528-10534.	1.6	44

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109	Electrochemically Programmed Release of Biomolecules and Nanoparticles. <i>Nano Letters</i> , 2006, 6, 1250-1253.	4.5	44
110	Engineered nanoparticles for systemic siRNA delivery to malignant brain tumours. <i>Nanoscale</i> , 2019, 11, 20045-20057.	2.8	44
111	Direct Numerical Simulation of Nucleation and Three-Dimensional, Diffusion-Controlled Growth. <i>Journal of the Electrochemical Society</i> , 2001, 148, C376.	1.3	43
112	Programmed subcellular release for studying the dynamics of cell detachment. <i>Nature Methods</i> , 2009, 6, 211-213.	9.0	43
113	Zebrafish models for functional and toxicological screening of nanoscale drug delivery systems: promoting preclinical applications. <i>Bioscience Reports</i> , 2017, 37, .	1.1	43
114	Modeling hyperosmotic blood-brain barrier opening within human tissue-engineered in vitro brain microvessels. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1517-1532.	2.4	43
115	Growth Kinetics for Copper Deposition on Si(100) from Pyrophosphate Solution. <i>Journal of the Electrochemical Society</i> , 2000, 147, 2576.	1.3	42
116	A Membrane-Translocating Peptide Penetrates into Bilayers without Significant Bilayer Perturbations. <i>Biophysical Journal</i> , 2013, 104, 2419-2428.	0.2	42
117	Cerebrovascular plasticity: Processes that lead to changes in the architecture of brain microvessels. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1413-1432.	2.4	42
118	The Potential Distribution at the Semiconductor/Solution Interface. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7793-7799.	1.2	40
119	Stochastic Simulation of the Early Stages of Kinetically Limited Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2006, 153, C434.	1.3	40
120	Fabrication of Complex Architectures Using Electrodeposition into Patterned Self-Assembled Monolayers. <i>Nano Letters</i> , 2006, 6, 1023-1026.	4.5	40
121	Influence of the reactant concentrations on the synthesis of ZnO nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2005, 288, 313-316.	5.0	39
122	Synthesis of Cadmium Selenide Quantum Dots from a Non-Coordinating Solvent: Growth Kinetics and Particle Size Distribution. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17849-17854.	1.5	39
123	An experimentally validated approach to calculate the blood-brain barrier permeability of small molecules. <i>Scientific Reports</i> , 2019, 9, 6117.	1.6	39
124	Kinetics of Desorption of Alkanethiolates on Gold. <i>Langmuir</i> , 2006, 22, 3474-3476.	1.6	38
125	Influence of Applied Potential on the Impedance of Alkanethiol SAMs. <i>Langmuir</i> , 2007, 23, 9681-9685.	1.6	38
126	Universal Antibody Conjugation to Nanoparticles Using the Fcγ ₃ Receptor I (Fcγ ₃ RI): Quantitative Profiling Of Membrane Biomarkers. <i>Bioconjugate Chemistry</i> , 2014, 25, 1893-1901.	1.8	38

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127	Energetics and Kinetics of Surface States at n-Type Silicon Surfaces in Aqueous Fluoride Solutions. <i>The Journal of Physical Chemistry</i> , 1996, 100, 1801-1806.	2.9	37
128	Electrodeposition of Copper on Oxidized Ruthenium. <i>Journal of the Electrochemical Society</i> , 2006, 153, C840.	1.3	37
129	Quantitative molecular profiling of biomarkers for pancreatic cancer with functionalized quantum dots. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 1043-1051.	1.7	37
130	Magnetic bead-quantum dot assay for detection of a biomarker for traumatic brain injury. <i>Nanoscale</i> , 2015, 7, 17820-17826.	2.8	37
131	Site-Selective Patterning Using Surfactant-Based Resists. <i>Journal of the American Chemical Society</i> , 2005, 127, 11960-11962.	6.6	36
132	Cellular microenvironment modulates the galvanotaxis of brain tumor initiating cells. <i>Scientific Reports</i> , 2016, 6, 21583.	1.6	36
133	Tissue-engineered 3D microvessel and capillary network models for the study of vascular phenomena. <i>Microcirculation</i> , 2017, 24, e12360.	1.0	35
134	Dissemination from a Solid Tumor: Examining the Multiple Parallel Pathways. <i>Trends in Cancer</i> , 2018, 4, 20-37.	3.8	35
135	Optimization of osmotic blood-brain barrier opening to enable intravital microscopy studies on drug delivery in mouse cortex. <i>Journal of Controlled Release</i> , 2020, 317, 312-321.	4.8	35
136	The Influence of Electric Field and Confinement on Cell Motility. <i>PLoS ONE</i> , 2013, 8, e59447.	1.1	35
137	Kinetics of Electrophoretic Deposition of Zinc Oxide Quantum Particle Thin Films. <i>Chemistry of Materials</i> , 1999, 11, 1959-1961.	3.2	33
138	Integrated Magnetic Bead-Quantum Dot Immunoassay for Malaria Detection. <i>ACS Sensors</i> , 2017, 2, 766-772.	4.0	33
139	Exploiting finite size effects in a novel core/shell microstructure. <i>Journal of Applied Physics</i> , 2008, 103, 064313.	1.1	32
140	Effect of a Polymer Cushion on the Electrical Properties and Stability of Surface-Supported Lipid Bilayers. <i>Langmuir</i> , 2010, 26, 3544-3548.	1.6	32
141	A Capacitive Sweat Rate Sensor for Continuous and Real-Time Monitoring of Sweat Loss. <i>ACS Sensors</i> , 2020, 5, 3821-3826.	4.0	32
142	Fabrication and Magnetic Properties of Ordered Macroporous Nickel Structures. <i>Journal of the Electrochemical Society</i> , 2007, 154, D65.	1.3	31
143	Protein imprinting in polyacrylamide-based gels. <i>Biomaterials</i> , 2014, 35, 8659-8668.	5.7	31
144	Precision Rehabilitation: Optimizing Function, Adding Value to Health Care. <i>Archives of Physical Medicine and Rehabilitation</i> , 2022, 103, 1233-1239.	0.5	31

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145	Kinetic Monte Carlo Simulations of Nucleation and Growth in Electrodeposition. <i>Journal of Physical Chemistry B</i> , 2005, 109, 24008-24015.	1.2	30
146	Electrodeposition of bismuth thin films on n-GaAs (110). <i>Applied Physics Letters</i> , 2005, 86, 121916.	1.5	29
147	Tumor accumulation of liposomal doxorubicin in three murine models: Optimizing delivery efficiency. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1637-1644.	1.7	29
148	Real-time quantification of endothelial response to shear stress and vascular modulators. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 362-374.	0.6	29
149	Electrodeposition of Co _x Pt _{1-x} Thin Films. <i>Journal of the Electrochemical Society</i> , 2005, 152, C27.	1.3	28
150	Electrical Measurements of Bilayer Membranes Formed by Langmuir-Blodgett Deposition on Single-Crystal Silicon. <i>Langmuir</i> , 2007, 23, 13040-13045.	1.6	28
151	Finite Size Effects in Ordered Macroporous Electrodes Fabricated by Electrodeposition into Colloidal Crystal Templates. <i>Journal of Physical Chemistry C</i> , 2007, 111, 3308-3313.	1.5	27
152	Influence of Basement Membrane Proteins and Endothelial Cell-Derived Factors on the Morphology of Human Fetal-Derived Astrocytes in 2D. <i>PLoS ONE</i> , 2014, 9, e92165.	1.1	27
153	Blinking in quantum dots: The origin of the grey state and power law statistics. <i>Physical Review B</i> , 2011, 84, 125317.	1.1	26
154	Ebola Virus Delta Peptide Is a Viroporin. <i>Journal of Virology</i> , 2017, 91, .	1.5	26
155	Detection of <i>Plasmodium</i> Lactate Dehydrogenase Antigen in Buffer Using Aptamer-Modified Magnetic Microparticles for Capture, Oligonucleotide-Modified Quantum Dots for Detection, and Oligonucleotide-Modified Gold Nanoparticles for Signal Amplification. <i>Bioconjugate Chemistry</i> , 2017, 28, 2230-2234.	1.8	25
156	Influence of Bioreceptor Layer Structure on Myelin Basic Protein Detection using Organic Field Effect Transistor-Based Biosensors. <i>Advanced Functional Materials</i> , 2018, 28, 1802605.	7.8	25
157	Impedance spectroscopy of bilayer membranes on single crystal silicon. <i>Biointerphases</i> , 2008, 3, FA33-FA40.	0.6	24
158	Interactions of Membrane Active Peptides with Planar Supported Bilayers: An Impedance Spectroscopy Study. <i>Langmuir</i> , 2012, 28, 6088-6096.	1.6	24
159	Quantitative characterization of the lipid encapsulation of quantum dots for biomedical applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 1190-1199.	1.7	24
160	Mitosis-Mediated Intravasation in a Tissue-Engineered Tumor-Microvessel Platform. <i>Cancer Research</i> , 2017, 77, 6453-6461.	0.4	24
161	Reversible blood-brain barrier opening utilizing the membrane active peptide melittin in vitro and in vivo. <i>Biomaterials</i> , 2021, 275, 120942.	5.7	24
162	Kinetics of Receptor Directed Assembly of Multisegment Nanowires. <i>Journal of Physical Chemistry B</i> , 2006, 110, 211-217.	1.2	23

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164	IgM anti-ACE2 autoantibodies in severe COVID-19 activate complement and perturb vascular endothelial function. <i>JCI Insight</i> , 2022, 7, .	2.3	23
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