Sorin Melinte

List of Publications by Year
in descending order

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96	2,570	147726	206029
papers	citations	31	48
		h-index	g-index

98	98	98	3858
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Revisiting Coulomb diamond signatures in quantum Hall interferometers. Physical Review B, 2022, 105, .	1.1	0
2	Sensing of COVID-19 spike protein in nasopharyngeal samples using a portable surface plasmon resonance diagnostic system. Sensors & Diagnostics, 2022, 1, 1021-1031.	1.9	8
3	The impact of chemical engineering and technological advances on managing diabetes: present and future concepts. Chemical Society Reviews, 2021, 50, 2102-2146.	18.7	28
4	High-resolution impedance mapping using electrically activated quantitative phase imaging. Light: Science and Applications, 2021, 10, 20.	7.7	10
5	The importance of the shape of Cu2O nanocrystals on plasmon-enhanced oxygen evolution reaction in alkaline media. Electrochimica Acta, 2021, 390, 138810.	2.6	11
6	Generation of Photonic Hooks from Patchy Microcylinders. Photonics, 2021, 8, 466.	0.9	10
7	Super-Resolution Imaging with Patchy Microspheres. Photonics, 2021, 8, 513.	0.9	8
8	Electrothermal patches driving the transdermal delivery of insulin. Nanoscale Horizons, 2020, 5, 663-670.	4.1	30
9	Plasmon-Driven Electrochemical Methanol Oxidation on Gold Nanohole Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 50426-50432.	4.0	21
10	Direct Visualization of Current-Stimulated Oxygen Migration in YBa₂Cu₃O_{7â^'Î´} Thin Films. ACS Nano, 2020, 14, 11765-11774.	7.3	14
11	Plasmon-enhanced electrocatalytic oxygen reduction in alkaline media on gold nanohole electrodes. Journal of Materials Chemistry A, 2020, 8, 10395-10401.	5.2	12
12	Enhanced electrocatalytic hydrogen evolution on a plasmonic electrode: the importance of the Ti/TiO2 adhesion layer. Journal of Materials Chemistry A, 2020, 8, 13980-13986.	5.2	10
13	Dopamine-functionalized cyclodextrins: modification of reduced graphene oxide based electrodes and sensing of folic acid in human serum. Analytical and Bioanalytical Chemistry, 2019, 411, 5149-5157.	1.9	10
14	Kinked Silicon Nanowires: Superstructures by Metal-Assisted Chemical Etching. Nano Letters, 2019, 19, 7681-7690.	4.5	24
15	High spatial resolution electrochemical biosensing using reflected light microscopy. Scientific Reports, 2019, 9, 15196.	1.6	10
16	Dual-Ligand Fe-Metal Organic Framework Based Robust High Capacity Li Ion Battery Anode and Its Use in a Flexible Battery Format for Electro-Thermal Heating. ACS Applied Energy Materials, 2019, 2, 4450-4457.	2.5	35
17	Statistics of thermomagnetic breakdown in Nb superconducting films. Scientific Reports, 2019, 9, 3659.	1.6	14
18	Carbonylâ€Based Ï€â€Conjugated Materials: From Synthesis to Applications in Lithiumâ€Ion Batteries. ChemPlusChem, 2019, 84, 1179-1214.	1.3	43

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19	Efficient capture and photothermal ablation of planktonic bacteria and biofilms using reduced graphene oxideâ€“polyethyleneimine flexible nanoheaters. Journal of Materials Chemistry B, 2019, 7, 2771-2781.	2.9	31
20	Graphene-modified electrodes for sensing doxorubicin hydrochloride in human plasma. Analytical and Bioanalytical Chemistry, 2019, 411, 1509-1516.	1.9	39
21	Quantitative magneto-optical investigation of superconductor/ferromagnet hybrid structures. Review of Scientific Instruments, 2018, 89, 023705.	0.6	25
22	Porous reduced graphene oxide modified electrodes for the analysis of protein aggregation. Part 2: Application to the analysis of calcitonin containing pharmaceutical formulation. Electrochimica Acta, 2018, 266, 364-372.	2.6	5
23	Kinked silicon nanowires-enabled interweaving electrode configuration for lithium-ion batteries. Scientific Reports, 2018, 8, 9794.	1.6	20
24	Flexible Nanoholey Patches for Antibiotic-Free Treatments of Skin Infections. ACS Applied Materials & Interfaces, 2017, 9, 36665-36674.	4.0	42
25	Mechanochemical Synthesis of PEDOT:PSS Hydrogels for Aqueous Formulation of Li-Ion Battery Electrodes. ACS Applied Materials & Interfaces, 2017, 9, 34865-34874.	4.0	43
26	Design of Flexible and Selfâ€Standing Electrodes for Liâ€Ion Batteries. Chinese Journal of Chemistry, 2017, 35, 41-47.	2.6	14
27	Surveying colloid sedimentation by coplanar waveguides. Nanotechnology, 2016, 27, 225502.	1.3	1
28	Carbon Redox-Polymer-Gel Hybrid Supercapacitors. Scientific Reports, 2016, 6, 22194.	1.6	49
29	Charge and spin transport in single and packed ruthenium-terpyridine molecular devices: Insight from first-principles calculations. Scientific Reports, 2016, 6, 31856.	1.6	5
30	A new design of organic radical batteries (ORBs): carbon nanotube buckypaper electrode functionalized by electrografting. Chemical Communications, 2015, 51, 9301-9304.	2.2	40
31	A facile and fast electrochemical route to produce functional few-layer graphene sheets for lithium battery anode application. Journal of Materials Chemistry A, 2014, 2, 15298-15302.	5.2	17
32	Unconventional molecule-resolved current rectification in diamondoidâ€“fullerene hybrids. Nature Communications, 2014, 5, 4877.	5.8	28
33	Surface Coating Mediated Swelling and Fracture of Silicon Nanowires during Lithiation. ACS Nano, 2014, 8, 9427-9436.	7.3	48
34	Tuning the surface conditioning of trapezoidally shaped silicon nanowires by (3-aminopropyl)triethoxysilane. Applied Physics Letters, 2014, 104, 023502.	1.5	6
35	Hybrid supercapacitor-battery materials for fast electrochemical charge storage. Scientific Reports, 2014, 4, 4315.	1.6	274
36	Electrografting onto ITO substrates of poly(thiophene)-based micelles decorated by acrylate groups. Polymer Chemistry, 2013, 4, 4151.	1.9	6

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37	Graphene-coated holey metal films: Tunable molecular sensing by surface plasmon resonance. Applied Physics Letters, 2013, 102, .	1.5	58
38	Direct Transcription of Twoâ€Dimensional Colloidal Crystal Arrays into Threeâ€Dimensional Photonic Crystals. Advanced Functional Materials, 2013, 23, 1164-1171.	7.8	33
39	Adsorption of zwitterionic assemblies on Si(111)-7ÂÃ—Â7: A joint tunneling spectroscopy andab initiostudy. Physical Review B, 2012, 85, .	1.1	5
40	Roll up nanowire battery from silicon chips. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15168-15173.	3.3	118
41	Vertical single nanowire devices based on conducting polymers. Nanotechnology, 2012, 23, 025302.	1.3	10
42	Wavelength-scale lens microscopy via thermal reshaping of colloidal particles. Nanotechnology, 2012, 23, 285708.	1.3	36
43	Optoelectronic Devices: CNTs in Optoelectronic Devices: New Structural and Photophysical Insights on Porphyrinâ€DWCNTs Hybrid Materials (Adv. Funct. Mater. 15/2012). Advanced Functional Materials, 2012, 22, 3315-3315.	7.8	1
44	CNTs in Optoelectronic Devices: New Structural and Photophysical Insights on Porphyrinâ€DWCNTs Hybrid Materials. Advanced Functional Materials, 2012, 22, 3209-3222.	7.8	28
45	Vertical Nanowire Architectures: Statistical Processing of Porous Templates Towards Discrete Nanochannel Integration. Small, 2010, 6, 1974-1980.	5.2	5
46	Femtogramâ€Controlled Synthesis and Selfâ€Aligned Fabrication of Polyaniline Microâ€and Nanostructures. Small, 2010, 6, 627-632.	5.2	10
47	Conjugated Polymer and Hybrid Polymer-Metal Single Nanowires: Correlated Characterization and Device Integration. , 2010, , .		1
48	Structural and Charge-Transport Properties of a Liquid-Crystalline Î±,Ï‰-Disubstituted Thiophene Derivative: A Joint Experimental and Theoretical Study. Journal of Physical Chemistry C, 2010, 114, 4617-4627.	1.5	18
49	Statistical processing of nanoporous templates with high-yield single-pore resolution. , 2010, , .		0
50	Hybrid synthesis and processing schemes for highly-ordered polyaniline nanoarchitectures. , 2010, , .		0
51	ZnO(0001) surfaces probed by scanning tunneling spectroscopy: Evidence for an inhomogeneous electronic structure. Applied Physics Letters, 2009, 95, .	1.5	12
52	Nanowire-templated microelectrodes for high-sensitivity pH detection. Applied Physics Letters, 2009, 94, .	1.5	26
53	Towards Allâ€Organic Fieldâ€Effect Transistors by Additive Soft Lithography. Small, 2009, 5, 1117-1122.	5.2	59
54	Electronic Transport Properties of 1,1â€²-Ferrocene Dicarboxylic Acid Linked to Al(111) Electrodes. ACS Nano, 2009, 3, 4137-4143.	7.3	35

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55	Electrochemically Template-Grown Multi-Segmented Gold-Conducting Polymer Nanowires with Tunable Electronic Behavior. Chemistry of Materials, 2009, 21, 4241-4247.	3.2	32
56	Miscibility between Differently Shaped Mesogens: Structural and Morphological Study of a Phthalocyanine-Perylene Binary System. Journal of Physical Chemistry B, 2009, 113, 5448-5457.	1.2	37
57	Highly Ordered Conjugated Polymer Nanoarchitectures with Three-Dimensional Structural Control. Nano Letters, 2009, 9, 2838-2843.	4.5	28
58	Nanowireâ€Ðecorated Microscale Metallic Electrodes. Small, 2008, 4, 557-560.	5.2	39
59	Nanocontrolled Bending of Discotic Columns by Spiral Networks. Small, 2008, 4, 728-732.	5.2	20
60	Size related transport mechanisms in hybrid metal-polymer nanowires. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1447-1450.	0.8	6
61	Controlled nanorubbing of polythiophene thin films for field-effect transistors. Organic Electronics, 2008, 9, 821-828.	1.4	25
62	Low-power dihexylquaterthiophene-based thin film transistors for analog applications. Applied Physics Letters, 2008, 92, .	1.5	7
63	In-plane magnetic-field-induced metal-insulator transition in(311)AGaAstwo-dimensional hole systems probed by thermopower. Physical Review B, 2007, 76, .	1.1	9
64	Dephasing time of two-dimensional holes in GaAs open quantum dots: Magnetotransport measurements. Physical Review B, 2007, 75, .	1.1	6
65	Structural and electrical characterization of hybrid metal-polypyrrole nanowires. Physical Review B, 2007, 76, .	1.1	39
66	Electronic properties of 1-4, dicyanobenzene and 1-4, phenylene diisocyanide molecules contacted between Pt and Pd electrodes: First-principles study. Physical Review B, 2007, 76, .	1.1	13
67	Uniaxial Alignment of Nanoconfined Columnar Mesophases. Nano Letters, 2007, 7, 2627-2632.	4.5	44
68	High-Throughput Fabrication of Organic Nanowire Devices with Preferential Internal Alignment and Improved Performance. Nano Letters, 2007, 7, 3639-3644.	4.5	89
69	Controlled growth of single nanowires within a supported alumina template. Nanotechnology, 2006, 17, 4873-4876.	1.3	36
70	Thermopower evidence for Wigner crystallization in the insulating phase of two-dimensional GaAs bilayer hole systems. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 120-123.	1.3	1
71	Orbital effect, subband depopulation, and conductance fluctuations in ballistic quantum dots under a tilted magnetic field. Physical Review B, 2005, 71, .	1.1	4
72	Anomalous spin polarization of GaAs two-dimensional hole systems. Physical Review B, 2005, 72, .	1.1	40

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73	Thermopower of Interacting GaAs Bilayer Hole Systems in the Reentrant Insulating Phase NearÎ½=1. Physical Review Letters, 2005, 94, 046802.	2.9	10
74	Negative differential Rashba effect in two-dimensional hole systems. Applied Physics Letters, 2004, 85, 3151-3153.	1.5	29
75	Laterally Modulated 2D Electron System in the Extreme Quantum Limit. Physical Review Letters, 2004, 92, 036802.	2.9	47
76	Interacting GaAs bilayer hole systems with layer density imbalance. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 32-35.	1.3	0
77	Spin splitting in GaAs (100) two-dimensional holes. Physical Review B, 2004, 69, .	1.1	23
78	Magnetism and pseudo-magnetism in quantum Hall systems. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 20, 123-132.	1.3	4
79	Role of finite layer thickness in spin polarization of GaAs two-dimensional electrons in strong parallel magnetic fields. Physical Review B, 2003, 67, .	1.1	69
80	Parallel magnetic-field-induced conductance fluctuations in one- and two-subband ballistic quantum dots. Physical Review B, 2003, 68, .	1.1	3
81	Layer-charge instability in unbalanced bilayer systems in the quantum Hall regime. Physical Review B, 2003, 68, .	1.1	14
82	Multiple interacting bilayer electron system: Magnetotransport and heat capacity measurements. Physical Review B, 2003, 68, .	1.1	2
83	Role of Density Imbalance in an Interacting Bilayer Hole System. Physical Review Letters, 2003, 91, 076802.	2.9	36
84	Spin Polarization andgFactor of a Dilute GaAs Two-Dimensional Electron System. Physical Review Letters, 2002, 88, 036805.	2.9	91
85	Probing spin physics in the quantum Hall regime by heat capacity and magnetotransport measurements. Comptes Rendus Physique, 2002, 3, 667-676.	0.3	0
86	Spin polarization of two-dimensional electrons in GaAs quantum wells around Landau level fillingÎ½=1from NMR measurements of gallium nuclei. Physical Review B, 2001, 64, .	1.1	13
87	The effect of Zeeman energy on heat capacity of GaAs/AlGaAs heterostructures near Î½=1. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 52-55.	1.3	0
88	NMR Determination of 2D Electron Spin Polarization atÎ½=1/2. Physical Review Letters, 2000, 84, 354-357.	2.9	84
89	Anomalous Thermopower in the Metallicllike Phase of a 2D Hole System. Physical Review Letters, 2000, 85, 4369-4372.	2.9	16
90	Heat Capacity Evidence for the Suppression of Skyrmions at Large Zeeman Energy. Physical Review Letters, 1999, 82, 2764-2767.	2.9	37

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91	Nanolithographic patterning of thin metal films with a scanning probe microscope. Superlattices and Microstructures, 1998, 24, 79-82.	1.4	4
92	Heat capacity and nuclear-spin dynamics in GaAs/AlGaAs heterostructures around Î½=1. Physica B: Condensed Matter, 1998, 249-251, 111-114.	1.3	0
93	Magnetization of an incompressible two-dimensional electron gas. Physica B: Condensed Matter, 1998, 256-258, 16-22.	1.3	3
94	Critical Behavior of Nuclear-Spin Diffusion in GaAs/AlGaAs Heterostructures near Landau Level FillingÎ½=1. Physical Review Letters, 1997, 79, 1718-1721.	2.9	45
95	Giant heat capacity and nuclear-spin diffusion in GaAs/AlGaAs heterostructures near Î½=1. Physica E: Low-Dimensional Systems and Nanostructures, 1997, 1, 36-41.	1.3	1
96	Giant Low Temperature Heat Capacity of GaAs Quantum Wells near Landau Level FillingÎ½=1. Physical Review Letters, 1996, 76, 4584-4587.	2.9	118