Citation Report
List of articles citing

Coulomb blockade and the Kondo effect in single-atom trans

DOI: 10.1038/nature00791
Nature, 2002, 417, 722-5.

Source: https://exaly.com/paper-pdf/34728283/citation-report.pdf
Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1820	Field-Induced Energy Shift of Excitonic Absorption in InGaAs/InP Multiquantum Wells Grown by Metalorganic Molecular Beam Epitaxy. **1987**, 26, 1927-1928		12
1819	What Can We Learn from the Internal-Conversion Electron Spectra of Multiply Charged Krypton Ions?. **1992**, 17, 303-308		2
1818	A Model of Directed Walks with Random Self-Interactions. **1992**, 18, 361-366		23
1817	Resonator systems. **2000**, 64, 487-529		1
1816	Fabrication of nanometer-spaced electrodes using gold nanoparticles. **2002**, 81, 4613-4615		80
1815	Polarons with a twist. **2002**, 66,		35
1814	SYNTHESIS OF NOVEL NANOMETER SIZE RUTHENIUM COMPLEXES FOR SINGLE ELECTRON CHARGING DEVICES AND THEIR ELECTROCHEMICAL PROPERTIES. **2002**, 01, 631-635		1
1813	Nanoditches Fabricated Using a Carbon Nanotube as a Contact Mask. **2002**, 2, 1061-1065		11
1812	Bistable molecular conductors with a field-switchable dipole group. **2002**, 66,		71
1811	Single-molecule chemistry. **2002**, 117, 11033-11061		552
1810	Search for minimum molecular programmable units.		9
1809	Measurement of the conductance of a hydrogen molecule. *Nature*, **2002**, 419, 906-9	50.4	807
1808	Electronics and the single atom. *Nature*, **2002**, 417, 701-2	50.4	24
1807	The attraction of lipids. *Nature*, **2002**, 417, 702	50.4	1
1806	Electrical characterization of metal-molecule-silicon junctions. **2003**, 1006, 36-47		11
1805	CrossNets: high-performance neuromorphic architectures for CMOL circuits. **2003**, 1006, 146-63		87
1804	Single-molecule designs for electric switches and rectifiers. **2003**, 1006, 198-211		5

1803	An overview of the first half-century of molecular electronics. **2003**, 1006, 1-20	84
1802	Unimolecular rectifiers and proposed unimolecular amplifier. **2003**, 1006, 252-76	14
1801	Understanding charge transport in molecular electronics. **2003**, 1006, 277-90	47
1800	Fabrication of nano-gap electrodes using electroplating technique. **2003**, 438-439, 317-321	62
1799	Single-electron transport in metal/polyimide:C60/metal junction. **2003**, 438-439, 369-373	5
1798	Wiring up single molecules. **2003**, 438-439, 457-461	40
1797	Electric measurements of nano-scaled devices. **2003**, 438-439, 462-466	8
1796	Low temperature conductance measurements of self-assembled monolayers of 1,4-phenylene diisocyanide. **2003**, 4, 1247-52	20
1795	Single-walled carbon nanotube based molecular switch tunnel junctions. **2003**, 4, 1335-9	109
1794	Self-Assembly and Characterisation of Grid-Type Iron(II), Cobalt(II) and Zinc(II) Complexes. **2003**, 2003, 4001-4009	32
1793	The Molecule–Electrode Interface in Single-Molecule Transistors. **2003**, 115, 5884-5889	33
1792	The molecule-electrode interface in single-molecule transistors. **2003**, 42, 5706-11	127
1791	Electrical characterization of metal–molecule–silicon junctions. **2003**, 33, 217-226	31
1790	The metal/organic monolayer interface in molecular electronic devices. **2003**, 70, 539-550	40
1789	Quantum properties of atomic-sized conductors. **2003**, 377, 81-279	1265
1788	Structure and transport in multi-orbital Kondo systems. **2003**, 18, 69-72	26
1787	Coherent transport through a molecular wire: DFT calculation. **2003**, 18, 255-257	11
1786	Electrical and optical effects in molecular nanoscopic-sized building blocks. **2003**, 19, 126-132	4

1785	Local Ar beam irradiation for making tunneling barriers and its application to single electron inverter in multi-wall carbon nanotubes. **2003**, 19, 157-160		1
1784	Single-electron transistor of a single organic molecule with access to several redox states. *Nature*, **2003**, 425, 698-701	50.4	736
1783	Shot noise in tunneling transport through molecules and quantum dots. **2003**, 68,		91
1782	Scanning tunneling spectroscopy investigation of self-assembled plastocyanin mutants onto gold substrates under controlled environment. **2003**,		
1781	Asymmetric Photoconductivity within Nanoscale Break Junctions. **2003**, 3, 1561-1564		5
1780	Microscopic study of electrical transport through individual molecules with metallic contacts. I. Band lineup, voltage drop, and high-field transport. **2003**, 68,		339
1779	Field Effect Transistor Based on a Modified DNA Base. **2003**, 3, 479-483		112
1778	Kondo excitons in self-assembled quantum dots. **2003**, 67,		21
1777	Electron Transport Properties of a Carotene Molecule in a Metal(Single Molecule)Metal Junction. **2003**, 107, 6162-6169		99
1776	Synthesis and Characterization of Conjugated Mono- and Dithiol Oligomers and Characterization of Their Self-Assembled Monolayers. **2003**, 19, 4272-4284		126
1775	Tunneling broadening of vibrational sidebands in molecular transistors. **2003**, 68,		152
1774	Fabrication approach for molecular memory arrays. **2003**, 82, 645-647		138
1773	Single-Molecule LEDs from Nanoscale Electroluminescent Junctions **2003**, 107, 7387-7390		24
1772	Layer-by-layer growth of metal-metal bonded supramolecular thin films and its use in the fabrication of lateral nanoscale devices. **2003**, 125, 336-7		88
1771	Theory of current and shot-noise spectroscopy in single-molecular quantum dots with a phonon mode. **2003**, 67,		129
1770	Nonequilibrium spintronic transport through an artificial Kondo impurity: conductance, magnetoresistance, and shot noise. **2003**, 90, 116602		144
1769	Kondo effect in coupled quantum dots: A noncrossing approximation study. **2003**, 67,		68
1768	Electrical Contacts to Molecular Layers by Nanotransfer Printing. **2003**, 3, 913-917		227

1767	Self-Assembled Monolayers of Ruthenium and Osmium Bis-Terpyridine ComplexesInsights of the Structure and Interaction Energies by Combining Scanning Tunneling Microscopy and Electrochemistry. **2003**, 107, 1157-1162	41
1766	Measurements of single-molecule electromechanical properties. **2003**, 125, 16164-5	284
1765	Self-Assembled Oligo(phenylene-ethynylene) Molecular Electronic Switch Monolayers on Gold: Structures and Chemical Stability. **2003**, 19, 8245-8255	137
1764	Fabrication of Asymmetric Electrode Pairs with Nanometer Separation Made of Two Distinct Metals. **2003**, 3, 1383-1385	53
1763	Fabrication of a Molecular Self-Assembled Monolayer Diode Using Nanoimprint Lithography. **2003**, 3, 1687-1690	33
1762	Discrete two-terminal single nanocluster quantum optoelectronic logic operations at room temperature. **2003**, 100, 3043-6	65
1761	Electron transport in molecular wire junctions. **2003**, 300, 1384-9	2037
1760	Measurement of single-molecule resistance by repeated formation of molecular junctions. **2003**, 301, 1221-3	1835
1759	Nanoscale molecular-switch crossbar circuits. **2003**, 14, 462-468	476
1758	Kondo effect in the presence of itinerant-electron ferromagnetism studied with the numerical renormalization group method. **2003**, 91, 247202	165
1757	Applied physics. Moore's law forever?. **2003**, 299, 210-1	313
1756	Nonlinear circuit foundations for nanodevices. I. The four-element torus. **2003**, 9, 1830-1859	190
1755	. **2003**, 9, 1958-1975	54
1754	Visualization and spectroscopy of a metal-molecule-metal bridge. **2003**, 302, 77-81	318
1753	Unimolecular electrical rectifiers. **2003**, 103, 3803-34	478
1752	Effects of geometry and doping on the operation of molecular transistors. **2003**, 82, 1938-1940	38
1751	Evaluations and Considerations for Self-Assembled Monolayer Field-Effect Transistors. **2003**, 3, 119-124	93
1750	One-way optoelectronic switching of photochromic molecules on gold. **2003**, 91, 207402	485

1749	Current collapse in tunneling transport through benzene. **2003**, 90, 076805	100
1748	Molecular recognition and conductance in crown ethers. **2003**, 125, 13936-7	66
1747	Molecular Electronics. **2003**, 56, 43-49	660
1746	Circuit characteristics of molecular electronic components.	1
1745	20 Organometallic chemistry of bi- and poly-nuclear complexes. **2003**, 99, 371-408	4
1744	A top-down look at bottom-up electronics.	13
1743	Correlation of electronic and local structure of 4-hydroxy-thiophenol on NaCl(100) and Ag(100). **2003**, 118, 7578	6
1742	Molecular Coulomb islands for single-electron tunneling in SiO2/molecular layer/SiO2 multilayers on Si(100). **2003**, 94, 4711-4713	18
1741	Electron Transfer from the Molecular to the Nanoscale. **2003**, 731-777	5
1740	Microscopic study of electrical transport through individual molecules with metallic contacts. II. Effect of the interface structure. **2003**, 68,	162
1739	Vibrational sidebands and dissipative tunneling in molecular transistors. **2003**, 68,	228
1738	Effects of gating and contact geometry on current through conjugated molecules covalently bonded to electrodes. **2003**, 67,	95
1737	Memory effect in a molecular quantum dot with strong electron-vibron interaction. **2003**, 67,	96
1736	Single-electron transistors in heterostructure nanowires. **2003**, 83, 2052-2054	370
1735	Elastic deformation blockade in a single-electron transistor. **2003**, 68,	19
1734	Quantum dot in the Kondo regime coupled to p-wave superconductors. **2003**, 68,	20
1733	Binding at molecule/gold transport interfaces. II. Orbitals and density of states. **2003**, 119, 11943-11950	17
1732	A hybrid scanning tunneling atomic force microscope operable in air. **2003**, 74, 4373-4377	2

1731	Planar nanocontacts with atomically controlled separation. **2003**, 83, 3782-3784	26
1730	A terahertz molecular switch. **2003**, 90, 178302	29
1729	Fingerprinting the electronic wave functions of ultrasmall conductors. **2003**, 67,	1
1728	Nanometer-scale metallic grains connected with atomic-scale conductors. **2003**, 93, 3501-3508	24
1727	Oligoazomethine-doped planar tunnel junctions: Correlating molecular structure with junction electrical characteristics. **2003**, 119, 5654-5658	3
1726	Possible nanoelectronic implementation of neuromorphic networks.	3
1725	Neuromorphic CMOL circuits.	11
1724	Characterization of Electromigration-induced Gold Nanogaps. **2003**,	1
1723	Efficient removers for poly(methylmethacrylate). **2003**, 21, 91	20
1722	Fabrication and characterization of sub-3 nm gaps for single-cluster and single-molecule experiments. **2003**, 14, 772-777	48
1721	Anorganische Chemie 2002. **2003**, 51, 258-277	
1720	Metal-molecule-semiconductor heterostructures for nano-device applications.	
1719	Formation of nanowires at the percolation threshold in rectangular 2D systems. **2003**,	
1718	Novel Structure of Fullerenes and Endohedral Fullerenes. **2003**, 775, 1031	1
1717	Electronics Below 10 nm. **2003**, 27-68	72
1716	Molecular Electronics. **2004**, 261-282	2
1715	Electric Conduction of Small Number Molecules. **2004**, 25, 732-737	
1714	Unimolecular Electronics and Unimolecular Rectifiers. **2004**, 1525-1537	1

1713	Molecular Wires. **2004**, 925-930	1
1712	Position-Selected Molecular Ruler. **2004**, 43, L950-L953	25
1711	A simple fabrication method of nanogap electrodes for top-contacted geometry: application to porphyrin nanorods and a DNA network. **2004**, 15, 1639-1644	35
1710	Temperature effects on conduction through a molecular junction. **2004**, 15, S483-S488	71
1709	Nanometer Scale Technologies: Device Considerations. **2004**, 5-33	
1708	Kondo effect in a many-electron quantum ring. **2004**, 93, 176803	27
1707	Dissipative tunneling and orthogonality catastrophe in molecular transistors. **2004**, 70,	14
1706	Localization and capacitance fluctuations in disordered Au nanojunctions. **2004**, 69,	8
1705	Ab initio study of the alternating current impedance of a molecular junction. **2004**, 120, 3387-96	112
1704	Control of relative tunneling rates in single molecule bipolar electron transport. **2004**, 93, 236802	188
1703	Inelastic electron tunneling via molecular vibrations in single-molecule transistors. **2004**, 93, 266802	277
1702	Prototypical single-molecule chemical-field-effect transistor with nanometer-sized gates. **2004**, 92, 188303	139
1701	Facile, on-demand electronic nanodevice fabrication from photo- and electro-active silver oxide. **2004**, 84, 118-120	8
1700	Conductance of molecular wires and transport calculations based on density-functional theory. **2004**, 69,	176
1699	Many-body effects on the transport properties of single-molecule devices. **2004**, 93, 147201	136
1698	Temperature-dependent molecular conduction measured by the electrochemical deposition of a platinum electrode in a lateral configuration. **2004**, 85, 4756-4758	11
1697	Electron transport through single phenylene‐ethynylene molecular junctions at low temperature. **2004**, 85, 645-647	57
1696	Ab initio calculations for quantum transport through atomic bridges by the recursion transfer-matrix method. **2004**, 69,	42

1695	Single- and multigrain nanojunctions with a self-assembled monolayer of conjugated molecules. **2004**, 92, 186805		53
1694	Metal-nanoparticle single-electron transistors fabricated using electromigration. **2004**, 84, 3154-3156		127
1693	Green's function formalism coupled with Gaussian broadening of discrete states for quantum transport: application to atomic and molecular wires. **2004**, 121, 8050-7		52
1692	Kondo effect in systems with dynamical symmetries. **2004**, 69,		22
1691	Device for conductance measurements of molecular systems.		
1690	Molecular Electronics: Theory and Device Prospects. **2004**, 29, 391-395		52
1689	The Kondo effect in the presence of ferromagnetism. **2004**, 306, 86-9		472
1688	Charge Transport through Molecular Junctions. **2004**, 29, 385-390		30
1687	Self-Assembly and Self-Organization. **2004**, 41-74		6
1686	Molecular wires: guiding the super-exchange interactions between two electrodes. **2004**, 15, 1065-1075		75
1685	Molecular Transport Junctions: An Introduction. **2004**, 29, 376-384		40
1684	Multi-Curve Fitting Analysis of Temperature-DependentI-VCurves of Poly-Hexathienylphenanthroline-Bridged Nanogap Electrodes. **2004**, 43, L634-L636		17
1683	HIGHER HARMONICS OF ELECTRONIC-VIBRATIONAL COUPLING IN SUBRESONANT AND RESONANT TRANSPORT IN SINGLE-MOLECULE DEVICES. **2004**, 03, 255-264		7
1682	Structure and Electronic Properties of Metal Di-(4-thiophenyl)-porphyrin. **2004**, 30, 929-933		1
1681	Introduction to Nanoscale Science and Technology. **2004**,		88
1680	Single-atom spin-flip spectroscopy. **2004**, 306, 466-9		542
1679	Random quasi-phase-matching in bulk polycrystalline isotropic nonlinear materials. *Nature*, **2004**, 432, 374-6	50.4	261
1678	Electrical generation and absorption of phonons in carbon nanotubes. *Nature*, **2004**, 432, 371-4	50.4	282

1677	Atomistic theory of transport in organic and inorganic nanostructures. **2004**, 67, 1497-1561	246
1676	Unimolecular rectifiers and prospects for other unimolecular electronic devices. **2004**, 4, 291-304	25
1675	Assembling dimeric pi stacks on gold surfaces by using three-dimensional lock-and-key receptors. **2004**, 43, 1836-9	7
1674	Changes in the conductance of single peptide molecules upon metal-ion binding. **2004**, 43, 6148-52	87
1673	Assembling Dimeric Stacks on Gold Surfaces by Using Three-Dimensional Lock-and-Key Receptors. **2004**, 116, 1872-1875	3
1672	Changes in the Conductance of Single Peptide Molecules upon Metal-Ion Binding. **2004**, 116, 6274-6278	6
1671	Nano-scaled Biomolecular Field-Effect Transistors: Prototypes and Evaluations. **2004**, 16, 1853-1862	11
1670	Neuromorphic architectures for nanoelectronic circuits. **2004**, 32, 277-302	87
1669	Rigid nitronyl-nitroxide-labelled anchoring molecules: syntheses, structural and magnetic investigations. **2004**, 45, 9623-9626	17
1668	Measurement of electron transport properties of molecular junctions fabricated by electrochemical and mechanical methods. **2004**, 573, 1-10	20
1667	Manipulation of large molecules by low-temperature STM: model systems for molecular electronics. **2004**, 399, 175-225	113
1666	A Hückel study of the effect of a molecular resonance cavity on the quantum conductance of an alkene wire. **2004**, 393, 367-371	23
1665	Scanning tunneling spectroscopy investigation of self-assembled plastocyanin mutants onto gold substrates under controlled environment. **2004**, 107, 107-16	13
1664	Single electron transistor with a single conjugated molecule. **2004**, 4, 554-558	21
1663	Phonon effects in molecular transistors: Quantal and classical treatment. **2004**, 69,	448
1662	Metalloprotein-based field-effect transistor: a prototype.	1
1661	Patterning molecular scale paramagnets at Au surfaces: a root to magneto-molecular-electronics.	
1660	Nano, Quantum and Molecular Computing. **2004**,	23

1659	Fabrication of 5nm linewidth and 14nm pitch features by nanoimprint lithography. **2004**, 84, 5299-5301	505
1658	Room Temperature Negative Differential Resistance through Individual Organic Molecules on Silicon Surfaces. **2004**, 4, 55-59	344
1657	Conductance titration of single-peptide molecules. **2004**, 126, 5370-1	133
1656	Observation of Single Helical Peptide Molecule Incorporated into Alkanethiol Self-Assembled Monolayer on Gold by Scanning Tunneling Microscopy. **2004**, 108, 15090-15095	33
1655	Thermally activated conduction in molecular junctions. **2004**, 126, 4052-3	139
1654	Self-Assembly and Conductive Properties of Molecularly Linked Gold Nanowires. **2004**, 4, 19-22	65
1653	Modular DNA-programmed assembly of linear and branched conjugated nanostructures. **2004**, 126, 1044-6	125
1652	Feasible Nanometric Magnetoresistance Devices. **2004**, 108, 14807-14810	28
1651	Electronic Properties of Palladium‐Thiolate Complexes with Tiara-like Structures. **2004**, 108, 1813-1817	10
1650	Observed suppression of room temperature negative differential resistance in organic monolayers on Si(100). **2004**, 15, S452-S458	58
1649	Fabrication and electrical characterization of Au/molecule/GaAs devices.	
1648	Measurement of Single Molecule Conductance:´Benzenedithiol and Benzenedimethanethiol. **2004**, 4, 267-271	530
1647	A single-electron-transistor logic gate family and its application - Part II: design and simulation of a 7-3 parallel counter with linear summation and multiple-valued latch functions.	5
1646	Atomic-scale nanowires: physical and electronic structure. **2004**, 16, R721-R754	66
1645	Kondo effect in quantum dots. **2004**, 16, R513-R537	184
1644	Electrochemistry of Conductive Polymers. 30. Nanoscale Measurements of Doping Distributions and Current‐Voltage Characteristics of Electrochemically Deposited Polypyrrole Films. **2004**, 108, 1590-1595	64
1643	Nanoscale aryleneethynylene molecular wires with reversible fluorenone electrochemistry for self-assembly onto metal surfaces. **2004**, 6, 2181-4	44
1642	Electronic correlations in coherent transport through a two quantum dot system. **2004**, 70,	55

1641	Charge Transport at Metal/Molecule Interfaces: A Spectroscopic View. **2004**, 108, 8778-8793	115
1640	charge storage behavior of nanowire transistors functionalized with bis(terpyridine)-Fe(II) molecules: dependence on molecular structure. **2004**, 126, 7750-1	46
1639	The Kondo Effect in C60 Single-Molecule Transistors. **2004**, 4, 79-83	306
1638	Applied physics. Boosting magnetoresistance in molecular devices. **2004**, 306, 63-4	2
1637	Spin-dependent transport in molecular tunnel junctions. **2004**, 93, 136601	207
1636	Molecular Nanowires and Other Quantum Objects. **2004**,	2
1635	Nanomaterials Synthesis and Applications: Molecule-Based Devices. **2004**, 9-38	
1634	Electronic Structure and Photochemical Properties of a Monolayer-Protected Gold Cluster. **2004**, 108, 11904-11908	47
1633	Ab initio transport properties of nanostructures from maximally localized Wannier functions. **2004**, 69,	220
1632	Transport in single-molecule transistors: Kondo physics and negative differential resistance. **2004**, 15, S517-S524	40
1631	Nanowire-Based Molecular Monolayer Junctions:´Synthesis, Assembly, and Electrical Characterization. **2004**, 108, 2827-2832	131
1630	Projecting the nanoworld: Concepts, results and perspectives of molecular electronics. **2004**, 14, 542	102
1629	Chemistry. Whence molecular electronics?. **2004**, 306, 2055-6	424
1628	DNA Electron Transfer Processes: Some Theoretical Notions. 1-36	85
1627	Inelastic electron tunneling spectroscopy in molecular junctions: peaks and dips. **2004**, 121, 11965-79	297
1626	Effect of halo substitution on the geometry of arenethiol films on Cu(111). **2004**, 126, 7762-3	39
1625	Nuclear wavefunction interference in single-molecule electron transport. **2005**, 7, 239-239	45
1624	Conductance of molecular nanojunctions: roles of surface topography and metal contacts. **2005**, 5592, 91	

1623	Many-body effects and quantum coherence in electron transport through quantum dots. **2005**, 2, 129	
1622	Toward the Emergence of Nanoneurosurgery: Part IIProgress in Nanoscience, Nanotechnology, and the Comprehension of Events in the Mesoscale Realm. **2005**, 57, 606-634	52
1621	Exploring Dynamics and Stereochemistry in Mechanically-Interlocked Compounds. **2005**, 70, 1493-1576	45
1620	Molecular Electronics with Gaussian98/03. **2005**, 1-46	6
1619	Hanle effect in transport through quantum dots coupled to ferromagnetic leads. **2005**, 72, 294-300	25
1618	Stepwise Preparation of Linear -Conjugated Bis(terpyridine)metal Polymer Chains at Gold Surface. **2005**, 34, 534-535	60
1617	Synthesis and intramolecular magnetic interaction of triphenylamine derivatives with nitronyl nitroxide radicals. **2005**, 24, 2141-2147	19
1616	Construction of a network structure composed of gold nanoparticles and spin-polarized molecular wires and its conducting and magnetic properties. **2005**, 24, 2263-2268	15
1615	Controllable nanogap fabrication on microchip by chronopotentiometry. **2005**, 50, 3041-3047	32
1614	Detection and switching of the oxidation state of Fe in a self-assembled monolayer. **2005**, 587, L191-L196	25
1613	Preparation of new heterotopic ligands. **2005**, 61, 5475-5480	23
1612	Charge transport through image charged stabilized states in a single molecule single electron transistor device. **2005**, 319, 350-359	18
1611	A molecule wired: Electrostatic investigation. **2005**, 405, 118-122	8
1610	Length and temperature dependence of electrical conduction through dithiolated porphyrin arrays. **2005**, 412, 303-306	41
1609	Tunneling-current-induced reaction of mercaptobutanol on Au(1 1 1). **2005**, 241, 189-193	1
1608	Electrochemistry and bioelectrochemistry towards the single-molecule level: Theoretical notions and systems. **2005**, 50, 3143-3159	50
1607	Controlling the electron transfer mechanism in metal-molecules-metal junctions. **2005**, 50, 4850-4856	26
1606	Self-assembled monolayers of thiolates on metals as a form of nanotechnology. **2005**, 105, 1103-69	6730

1605	Reliable performance. **2005**, 4, 799-800		5
1604	Nobel intentions. **2005**, 4, 800-800		1
1603	Orbital Kondo effect in carbon nanotubes. *Nature*, **2005**, 434, 484-8	50.4	315
1602	Field regulation of single-molecule conductivity by a charged surface atom. *Nature*, **2005**, 435, 658-61	50.4	272
1601	Measurement of the conductance of single conjugated molecules. *Nature*, **2005**, 436, 677-80	50.4	344
1600	Nanotechnology: new spin on correlated electrons. *Nature*, **2005**, 434, 451-2	50.4	4
1599	100 and 50 years ago. *Nature*, **2005**, 434, 451-451	50.4	
1598	Molecular electronics: charged with manipulation. *Nature*, **2005**, 435, 575-7	50.4	41
1597	Analytical chemistry: the Renaissance palette. *Nature*, **2005**, 435, 577	50.4	13
1596	Architectures for nanoelectronic implementation of artificial neural networks: new results. **2005**, 64, 271-283		20
1595	Electron tunneling through molecular media: a density functional study of Au/Dithiol/Au systems. **2005**, 6, 1906-10		17
1594	A controllable electrochemical fabrication of metallic electrodes with a nanometer/angstrom-sized gap using an electric double layer as feedback. **2005**, 44, 1265-8		57
1593	Finely tuning metallic nanogap size with electrodeposition by utilizing high-frequency impedance in feedback. **2005**, 44, 7771-5		28
1592	A Controllable Electrochemical Fabrication of Metallic Electrodes with a Nanometer/Angstrom-Sized Gap Using an Electric Double Layer as Feedback. **2005**, 117, 1291-1294		8
1591	Finely Tuning Metallic Nanogap Size with Electrodeposition by Utilizing High-Frequency Impedance in Feedback. **2005**, 117, 7949-7953		2
1590	Towards Protein Field-Effect Transistors: Report and Model of a Prototype. **2005**, 17, 816-822		80
1589	Memory Effect and Negative Differential Resistance by Electrode- Induced Two-Dimensional Single- Electron Tunneling in Molecular and Organic Electronic Devices. **2005**, 17, 2307-2311		91
1588	Effect of monolayer order and dynamics on the electronic transport of molecular wires. **2005**, 80, 1215-1223		7

1587	Electrical characterization of Al/AlOx/molecule/Ti/Al devices. **2005**, 80, 1355-1362	45
1586	Exponential temperature dependence and low-bias conductance anomaly in transport through LangmuirBlodgett monolayer devices. **2005**, 80, 1379-1383	20
1585	Maskless fabrication of nanoelectrode structures with nanogaps by using Ga focused ion beams. **2005**, 78-79, 253-259	22
1584	Nonlinear transport through a finite Hubbard chain connected to the electrodes. **2005**, 365, 193-200	7
1583	Kondo effect in quantum dots and molecular devices. **2005**, 50, 2132-2139	2
1582	Soft lithography contacts to organics. **2005**, 8, 42-54	23
1581	Possibilities of molecule-based spintoronics of DNA wires, sheets, and related materials. **2005**, 105, 655-671	9
1580	Top-down meets bottom-up: dip-pen nanolithography and DNA-directed assembly of nanoscale electrical circuits. **2005**, 1, 64-9	142
1579	Energy pumping in a quantum nanoelectromechanical system. **2005**, 31, 534-537	2
1578	??????????????????. **2005**, 56, 716-722	
1577	Low-Temperature Conduction of a Quantum Dot. **2005**, 97-130	1
1576	Kondo effect in quantum dots and molecular devices. **2005**, 50, 2132	1
1575	Molecular nano-junctions formed with different metallic electrodes. **2005**, 16, 495-500	15
1574	Quantum criticality in ferromagnetic single-electron transistors. **2005**, 102, 18824-9	32
1573	Controlling the Kondo effect of an adsorbed magnetic ion through its chemical bonding. **2005**, 309, 1542-4	543
1572	Shadow-evaporated nanometre-sized gaps and their use in electrical studies of nanocrystals. **2005**, 16, 631-634	25
1571	Field Effect of Self-Assembled Organic Multilayer in Nanogap Electrode; Current Oscillation Behaviour at Room Temperature. **2005**, 44, L465-L468	5
1570	Measuring Molecular Conductivities Using Single Molecular-Sized Gap Junctions Fabricated without Using Electron Beam Lithography. **2005**, 44, L472-L474	28

1569	Incident angle dependence of nanogap size in suspended carbon nanotube shadow lithography. **2005**, 16, 133-136	12
1568	Measurement of Electron Transport Properties of Single Molecules. **2005**, 44, 5344-5347	3
1567	Charge-Injection Effects in a Single 4,4''-Terphenyldithiol Molecule. **2005**, 44, 8759-8763	5
1566	Scanning tunneling microscopy study of single molecule motion on the Si(100)-2□1 surface. **2005**, 23, 1785	19
1565	Time-dependent electron transport through molecular quantum dots in the presence of external irradiation. **2005**, 17, 5859-5867	8
1564	Nanometre gaps in gold wires are formed by thermal migration. **2005**, 16, 1294-1299	15
1563	Effects of van Hove Singularities on Transport of Quantum Dot Systems in Kondo Regime. **2005**, 44, 563-572	6
1562	Approximate density functionals applied to molecular quantum dots. **2005**, 122, 154705	13
1561	Magnetoresistance devices based on single-walled carbon nanotubes. **2005**, 123, 051103	10
1560	Contribution of the metal□SiO2 interface potential to photoinduced switching in molecular single-electron tunneling junctions. **2005**, 97, 073513	5
1559	Single-metalloprotein wet biotransistor. **2005**, 86, 133902	88
1558	Inelastic resonant tunneling through single molecules and quantum dots: Spectrum modification due to nonequilibrium effects. **2005**, 71,	25
1557	Nonequilibrium Kondo effect in a quantum dot coupled to ferromagnetic leads. **2005**, 71,	65
1556	Super-Poissonian noise, negative differential conductance, and relaxation effects in transport through molecules, quantum dots, and nanotubes. **2005**, 71,	78
1555	Proximity effect in a superconductor-metallofullerene-superconductor molecular junction. **2005**, 72,	52
1554	Enhanced Fano factor in a molecular transistor coupled to phonons and Luttinger-liquid leads. **2005** , 72,	14
1553	Binding at molecule/gold transport interfaces. V. Comparison of different metals and molecular bridges. **2005**, 123, 234704	18
1552	Electron transport through molecules: Gate-induced polarization and potential shift. **2005**, 71,	44

1551	Magnetoconductance through a vibrating molecule in the Kondo regime. **2005**, 71,	33
1550	Spin current and shot noise in single-molecule quantum dots with a phonon mode. **2005**, 72,	16
1549	Quantum Monte Carlo method for models of molecular nanodevices. **2005**, 72,	35
1548	Theory for transport through a single magnetic molecule: Endohedral N@C60. **2005**, 71,	67
1547	Conductance of deformable molecules with interaction. **2005**, 72,	29
1546	Device structure for electronic transport through individual molecules using nanoelectrodes. **2005**, 87, 233509	48
1545	Current and noise in a model of an alternating current scanning tunneling microscope molecule-metal junction. **2005**, 122, 144703	9
1544	Printing electrode for top-contact molecular junction. **2005**, 87, 234110	16
1543	Junction behavior and Andreev bound states in Kondo quantum dots with superconducting leads. **2005**, 72,	51
1542	Large spin effects in Coulomb blockade of Fe/MgO/Fe tunnel junctions. **2005**, 72,	5
1541	Phonon Rabi-assisted tunneling in diatomic molecules. **2005**, 72,	2
1540	Three-terminal transport through a quantum dot in the Kondo regime: Conductance, dephasing, and current-current correlations. **2005**, 71,	44
1539	Single molecular devices with fullerenes and oligophenylenevinylene (opv) derivatives. **2005**,	
1538	Nonequilibrium dynamics of correlated electron transfer in molecular chains. **2005**, 95, 220404	20
1537	Fabrication of atomic-scale gold junctions by electrochemical plating using a common medical liquid. **2005**, 86, 143103	30
1536	Cluster algorithms for quantum impurity models and mesoscopic Kondo physics. **2005**, 71,	14
1535	Quantum transport through a deformable molecular transistor. **2005**, 71,	68
1534	Stretching dependence of the vibration modes of a single-molecule Pt/H2/Pt bridge. **2005**, 71,	135

1533	Kondo resonances and anomalous gate dependence in the electrical conductivity of single-molecule transistors. **2005**, 95, 256803	114
1532	Vibrational sidebands and the Kondo effect in molecular transistors. **2005**, 94, 176801	93
1531	Electron transport through a molecular conductor with center-of-mass motion. **2005**, 95, 256807	20
1530	SINGLE MOLECULE IMMOBILIZATION OF CONJUGATED MOLECULES ON Au USING DENDRIMER-BASED TEMPLATES. **2005**, 04, 467-473	1
1529	Electronic Transport through Self-Assembled Monolayers. **2005**, 43-64	3
1528	Magnetism of Interacting Two-Dimensional Nanostructures. **2005**, 459-501	1
1527	Course 7 Low-temperature transport through a quantum dot. **2005**, 81, 427-478	13
1526	Electrical addressing of confined quantum systems for quasiclassical computation and finite state logic machines. **2005**, 102, 5653-8	38
1525	Course 8 Transport at the atomic scale: Atomic and molecular contacts. **2005**, 81, 495-535	
1524	Tunneling rates in electron transport through double-barrier molecular junctions in a scanning tunneling microscope. **2005**, 102, 8832-7	81
1523	Resonant tunnelling through a C(60) molecular junction in a liquid environment. **2005**, 16, 2143-8	30
1522	Prevalence of Coulomb blockade in electro-migrated junctions with conjugated and non-conjugated molecules. **2005**, 16, 3110-3114	13
1521	Probing charge transport at the single-molecule level on silicon by using cryogenic ultra-high vacuum scanning tunneling microscopy. **2005**, 102, 8838-43	84
1520	Physics. Manipulating magnetism in a single molecule. **2005**, 309, 1501-2	21
1519	Shot noise of inelastic tunneling through quantum dot systems. **2005**, 71,	41
1518	Inelastic tunneling shot noise in quantum dot systems.	
1517	Mechanically assisted spin-dependent transport of electrons. **2005**, 71,	9
1516	Supramolecular chemistry on water--towards self-assembling molecular electronic circuitry. **2005**, 1812-23	59

1515	Measurement and control of single molecule conductance. **2005**, 15, 3260	33
1514	Hybrid CMOS/nanoelectronic digital circuits: devices, architectures, and design automation.	22
1513	Transistor effects and in situ STM of redox molecules at room temperature. **2005**, 4, 430-434	38
1512	Slow vibrations in transport through molecules. **2005**, 5, 2088-91	
1511	Coulomb blockade in electron transport through a C60 molecule from first principles. **2005**, 72,	52
1510	Electronic structure and electron transport characteristics of a cobalt complex. **2005**, 109, 6628-33	27
1509	Charging of molecules during transport. **2005**, 5, 1217-20	7
1508	Uncovering transport properties of 4,4'-bipyridine/gold molecular nanobridges. **2005**, 109, 10052-60	34
1507	Selective effect of guest molecule length and hydrogen bonding on the supramolecular host structure. **2005**, 109, 22296-300	37
1506	Electrical transport through a single nanoscale semiconductor branch point. **2005**, 5, 1519-23	119
1505	Ab initio study of molecule transport characteristics based on nonequilibrium Green's function theory. **2005**, 72,	25
1504	Vibration-assisted electron tunneling in C140 transistors. **2005**, 5, 203-7	175
1503	Covalent attachment of a transition metal coordination complex to functionalized oligo(phenylene-ethynylene) self-assembled monolayers. **2005**, 127, 14299-309	28
1502	Probing the effects of conjugation path on the electronic transmission through single molecules using scanning tunneling microscopy. **2005**, 5, 783-5	70
1501	Tuning the bipolar conductance of an alkali-doped C(60) layer sandwiched between two tunneling barriers. **2005**, 5, 55-9	7
1500	Electrochemistry of conductive polymers 36. pH dependence of polyaniline conductivities studied by current-sensing atomic force microscopy. **2005**, 109, 9305-10	61
1499	Single polymer chains as specific transducers of molecular recognition in scanning probe microscopy. **2005**, 127, 11390-8	11
1498	Sculpting nanoelectrodes with a transmission electron beam for electrical and geometrical characterization of nanoparticles. **2005**, 5, 549-53	61

1497	Electron transfer in metal-molecule-metal junction composed of self-assembled monolayers of helical peptides carrying redox-active ferrocene units. **2005**, 21, 10624-31	61
1496	Electroluminescence from a single-nanocrystal transistor. **2005**, 5, 2257-61	54
1495	A self-consistent transport model for molecular conduction based on extended H□kel theory with full three-dimensional electrostatics. **2005**, 123, 64707	81
1494	Conserving Diagrammatic Approximations for Quantum Impurity Models: NCA and CTMA. **2005**, 74, 16-26	28
1493	Effects of electron-phonon interaction on nonequilibrium transport through a single-molecule transistor. **2005**, 71,	117
1492	Single-Molecule Electronic Measurements with Metal Electrodes. **2005**, 82, 727	18
1491	Single-molecule optoelectronics. **2005**, 38, 534-41	195
1490	2,2?:6?,2?-Terpyridine-4?(1?H)-thione: a missing link in metallosupramolecular chemistry. **2005**, 29, 1475	40
1489	Metal complexes in molecular electronics: progress and possibilities. **2005**, 2821-4	233
1488	Kondo effect in electromigrated gold break junctions. **2005**, 5, 1685-8	131
1487	Interface geometry and molecular junction conductance: geometric fluctuation and stochastic switching. **2005**, 5, 1668-75	227
1486	Effect of local environment on molecular conduction: isolated molecule versus self-assembled monolayer. **2005**, 5, 61-5	196
1485	Near-perfect conduction through a ferrocene-based molecular wire. **2005**, 71,	107
1484	Organometallic spintronics: dicobaltocene switch. **2005**, 5, 1959-62	104
1483	Manipulation and detection of single electrons for future information processing. **2005**, 97, 031101	92
1482	Mechanically adjustable and electrically gated single-molecule transistors. **2005**, 5, 305-8	149
1481	Prospects for terabit-scale nanoelectronic memories. **2005**, 16, 137-148	87
1480	Transport spectroscopy of chemical nanostructures: the case of metallic single-walled carbon nanotubes. **2005**, 56, 475-90	11

1479	Magnetic exchange interactions in quantum dots containing electrons and magnetic ions. **2005**, 95, 217206	86
1478	Electrochemical gate-controlled conductance of single oligo(phenylene ethynylene)s. **2005**, 127, 9235-40	221
1477	Coulomb-blockade transport in quasi-one-dimensional polymer nanofibers. **2005**, 72,	51
1476	Single molecular orientation switching of an endohedral metallofullerene. **2005**, 5, 1057-60	113
1475	Self-contained Kondo effect in single molecules. **2005**, 95, 267202	103
1474	A molecular switch based on potential-induced changes of oxidation state. **2005**, 5, 503-6	238
1473	Transistor-like behavior of transition metal complexes. **2005**, 5, 1451-5	137
1472	Large gate modulation in the current of a room temperature single molecule transistor. **2005**, 127, 2386-7	257
1471	Controlled fabrication of nanogaps in ambient environment for molecular electronics. **2005**, 86, 043109	228
1470	Coulomb blockade phenomena in electromigration break junctions. **2005**, 87, 013106	50
1469	First-principles theory of correlated transport through nanojunctions. **2005**, 94, 116802	71
1468	First-principles theoretical description of electronic transport including electron-electron correlation. **2005**, 72,	33
1467	Electron transport through single Mn12 molecular magnets. **2006**, 96, 206801	418
1466	Scanning tunneling spectroscopy in an ionic liquid. **2006**, 128, 6574-5	88
1465	Quantum inelastic electron-vibration scattering in molecular wires: Landauer-like versus Green's function approaches and temperature effects. **2006**, 18, 6307-6328	21
1464	Nanoscale Transistors. **2006**,	2
1463	DFT and experimental examination of the oxidation/reduction of a thiol-substituted carotenoid with gold versus glassy carbon electrodes. **2006**, 110, 10091-7	4
1462	Simulating molecular conductance using real-time density functional theory. **2006**, 74,	135

1461	Mechanism of electrochemical charge transport in individual transition metal complexes. **2006**, 128, 17132-8	91
1460	Rigid molecular tripod with an adamantane framework and thiol legs. Synthesis and observation of an ordered monolayer on Au111. **2006**, 71, 1362-9	86
1459	Intermittent polaron dynamics: Born-Oppenheimer approximation out of equilibrium. **2006**, 73,	84
1458	Vibrational excitations in single trimetal-molecule transistors. **2006**, 6, 165-8	122
1457	Signatures of molecular magnetism in single-molecule transport spectroscopy. **2006**, 6, 2014-20	318
1456	From large 3D assembly to highly dispersed spherical assembly: weak and strong coordination mediated self-aggregation of Au colloids. **2006**, 30, 706	23
1455	Realistic Modeling of Nanostructures Using Density Functional Theory. **2006**, 31, 681-687	21
1454	Introducing Molecular Electronics. **2006**,	18
1453	Negative differential resistance and hysteresis through an organometallic molecule from molecular-level crossing. **2006**, 128, 6274-5	66
1452	Resonant inelastic tunneling in molecular junctions. **2006**, 73,	188
1451	Spin amplification, reading, and writing in transport through anisotropic magnetic molecules. **2006**, 73,	150
1450	Electrostatic modification of novel materials. **2006**, 78, 1185-1212	421
1449	Nanometer scale electrode separation (nanogap) using electromigration at room temperature. **2006**, 5, 232-236	26
1448	Extended H□kel theory for band structure, chemistry, and transport. I. Carbon nanotubes. **2006**, 100, 043714	80
1447	Gating current flowing through molecules in metal-molecules-metal junctions. **2006**, 131, 197-203; discussion 205-220	22
1446	Supramolecular 'flat' Mn9 grid complexes--towards functional molecular platforms. **2006**, 2835-51	64
1445	Engineering of an iron□□erpyridine complex with supramolecular gels and mesomorphic properties. **2006**, 30, 135-139	34
1444	Fast temporal fluctuations in single-molecule junctions. **2006**, 131, 281-9; discussion 307-24	26

1443	Molecular wires and devices: advances and issues. **2006**, 131, 403-9	44
1442	Structural, spectroscopic, and electrochemical behavior of trans-phenolato cobalt(III) complexes of asymmetric NN'O ligands as archetypes for metallomesogens. **2006**, 2517-25	50
1441	Low Temperature Scanning Tunneling Spectroscopy of Phthalocyanine Molecules on Metal Surfaces. **2006**, 455, 93-97	2
1440	Local electronic structure around a single Kondo impurity. **2006**, 6, 1146-50	28
1439	Analytical challenges in molecular electronics. **2006**, 78, 3490-7	43
1438	Orbital fluctuations and strong correlations in quantum dots. **2006**, 86, 2043-2072	14
1437	Electrical transport in saturated and conjugated molecular wires. **2006**, 131, 45-67; discussion 91-109	24
1436	Molecular three-terminal devices: fabrication and measurements. **2006**, 131, 347-56; discussion 393-402	88
1435	Can scanning tunnelling spectroscopy measure the density of states of semiconductor quantum dots?. **2006**, 8, 3845-50	53
1434	Six Unimolecular Rectifiers and What Lies Ahead. **2006**, 313-349	5
1433	In situ scanning tunnelling spectroscopy of inorganic transition metal complexes. **2006**, 131, 265-79; discussion 307-24	95
1432	Addressing metal centres in supramolecular assemblies. **2006**, 35, 1056-67	181
1431	Electronic density of states in sequence dependent DNA molecules. **2006**, 600, 3770-3774	7
1430	Electron transport properties of helical peptide dithiol at a molecular level: Scanning tunneling microscope study. **2006**, 509, 18-26	25
1429	Ruthenium molecular wires with conjugated bridging ligands: onset of band formation in linear inorganic conjugated oligomers. **2006**, 128, 1513-22	75
1428	Shot noise measurements on a single molecule. **2006**, 6, 789-93	157
1427	Nanoscale aryleneethynylene oligomers incorporating fluorenone units as electron-dopable molecular wires. **2006**, 131, 221-34; discussion 307-24	17
1426	Neutral complexes of first row transition metals bearing unbound thiocyanates and their assembly on metallic surfaces. **2006**, 128, 3179-89	45

1425	Strong electronic coupling between single C60 molecules and gold electrodes prepared by quench condensation at 4 K. A single molecule three terminal device study. **2006**, 131, 337-45; discussion 393-402	20
1424	Molecular Electronics: from Physics to Computing. **2006**, 215-245	2
1423	Electron transport through a self-assembled monolayer of thiol-end-functionalized tetraphenylporphines and metal tetraphenylporphines. **2006**, 22, 3035-9	44
1422	Kondo effect in the presence of magnetic impurities. **2006**, 96, 017205	112
1421	Electron transport in networks of gold nanoparticles connected by oligothiophene molecular wires. **2006**, 16, 3459	34
1420	The role of Joule heating in the formation of nanogaps by electromigration. **2006**, 99, 114316	110
1419	Controlling charge transport in single molecules using electrochemical gate. **2006**, 131, 111-20; discussion 205-20	90
1418	A unidirectional energy transfer cascade process in a ruthenium junction self-assembled by alpha- and beta-cyclodextrins. **2006**, 128, 4520-1	47
1417	Gel-phase HR-MAS 1H NMR spectroscopy as a probe for solid-tethered diimide rotaxanes and catenanes. **2006**, 30, 861	25
1416	Role of the Bridging Arylethynyl Ligand in Bi- and Trinuclear Ruthenium and Iron Complexes. **2006**, 25, 635-643	91
1415	Manipulation of the Kondo effect via two-dimensional molecular assembly. **2006**, 97, 266603	124
1414	Electron transfer dynamics of bistable single-molecule junctions. **2006**, 6, 2184-90	33
1413	Manipulating Kondo temperature via single molecule switching. **2006**, 6, 820-3	199
1412	Two-dimensional assembly and local redox-activity of molecular hybrid structures in an electrochemical environment. **2006**, 131, 121-43; discussion 205-20	121
1411	Transient charge accumulation in a capacitive self-assembled monolayer. **2006**, 6, 2462-6	28
1410	Structural contributions to charge transport across Ni-octanedithiol multilayer junctions. **2006**, 6, 2515-9	26
1409	Ancillary ligand functionalization of cyanide-bridged S = 6 Fe(III)4Ni(II)4 complexes for molecule-based electronics. **2006**, 45, 7569-71	63
1408	Quantum Transmission and Current Distribution of C60Molecule Bridge with Near-, Far-terminal Electrodes.	

1407	Electrochemistry of conductive polymers 39. Contacts between conducting polymers and noble metal nanoparticles studied by current-sensing atomic force microscopy. **2006**, 110, 25656-64	62
1406	Covalently bridging gaps in single-walled carbon nanotubes with conducting molecules. **2006**, 311, 356-9	390
1405	Magnetoresistance of nanoscale molecular devices. **2006**, 39, 109-17	39
1404	Electrical conductance of molecular junctions by a robust statistical analysis. **2006**, 6, 2238-42	183
1403	Ab initio electron propagator theory of molecular wires. II. Multiorbital terminal description. **2006**, 124, 144114	28
1402	Foundations of Molecular Electronics Charge Transport in Molecular Conduction Junctions. **2006**, 13-54	7
1401	Making Contacts to Single Molecules: Are We There Yet?. **2006**, 301-312	1
1400	. **2006**,	22
1399	. **2006**,	120
1398	. **2006**,	270
1397	Molecular Electronics. **2006**,	
1396	Thieno[3,4-d]imidazolium-containing Molecular Wire: Switching Behavior of Photoinduced Intramolecular Electron Transfer. **2006**, 35, 1366-1367	9
1395	Localized Spins Exchange-coupled with Itinerant Electrons in Organic electronic System. **2006**, 1-22	2
1394	Are Short Molecules Quantum Dot Arrays?. **2006**,	
1393	Surfaces Modified with Terpyridine Metal Complexes. **2006**, 199-218	1
1392	Thiol End-capped Molecules for Molecular Electronics: Synthetic Methods, Molecular Junctions and Structure Property Relationships. 353-392	1
1391	Reversible and controllable switching of a single-molecule junction. **2006**, 2, 973-7	242
1390	Correlated Ab initio electron propagators in the study of molecular wires. **2006**, 106, 3387-3392	20

1389	Kondo effect in nanostructures. **2006**, 203, 1137-1147		5
1388	Electromigrated molecular junctions. **2006**, 243, 3408-3412		25
1387	Electron transport in molecular junctions. **2006**, 1, 173-81		1140
1386	Carbon nanotube superconducting quantum interference device. **2006**, 1, 53-9		450
1385	Non-equilibrium singlet–triplet Kondo effect in carbon nanotubes. **2006**, 2, 460-464		120
1384	Dependence of single-molecule junction conductance on molecular conformation. *Nature*, **2006**, 442, 904-7	50.4	1100
1383	Metrology for molecular electronics. **2006**, 568, 20-7		27
1382	Unimolecular rectifiers: methods and challenges. **2006**, 568, 146-55		23
1381	In situ measurements of oligoaniline conductance: Linking electrochemistry and molecular electronics. **2006**, 324, 236-243		29
1380	Single-molecule transistors: Electron transfer in the solid state. **2006**, 324, 267-275		59
1379	Influences of the molecule–electrode interface structure on the conducting characteristics of the gold-4,4 bipyridine-gold molecular junction. **2006**, 327, 1-9		24
1378	Unimolecular rectifiers and what lies ahead. **2006**, 284-285, 2-10		10
1377	Electronic transport and tip-loading force effect in self-assembled monolayer studied by conducting atomic force microscopy. **2006**, 284-285, 583-588		8
1376	Theoretical study of building blocks for molecular switches based on electrically induced conformational changes. **2006**, 320, 84-94		32
1375	Unimolecular rectifiers: Present status. **2006**, 326, 176-187		66
1374	Electrical transport properties and their reproducibility for linear porphyrin arrays. **2006**, 26, 1023-1027		18
1373	Large-scale aligned carbon nanotubes films. **2006**, 33, 235-239		9
1372	First-principles study of phenyl ethylene oligomers as current-switch. **2006**, 359, 487-493		32

1371	Electrical characteristics and Coulomb blockade in Co/Al2O3/NiFe MTJs. **2006**, 304, e321-e324	1
1370	Reproducible formation of nanoscale-gap electrodes for single-molecule measurements by combination of FIB deposition and tunneling current detection. **2006**, 83, 1471-1473	16
1369	Morphology control of one-dimensional supramolecular assemblies by a template polymer. **2006**, 7, 605-608	4
1368	Synthesis of end-functionalized π-conjugated porphyrin oligomers. **2006**, 62, 4749-4755	8
1367	Direct fabrication of nano-gap electrodes by focused ion beam etching. **2006**, 499, 279-284	43
1366	Single-molecule electrical junctions. **2006**, 57, 593-623	158
1365	Mechanism of enhanced rectification in unimolecular Borromean ring devices. **2006**, 74,	15
1364	Tunability of the Kondo effect in an asymmetrically tunnel coupled quantum dot. **2006**, 51, 413-419	2
1363	Preparation of Novel Materials Using SMMs. 133-161	77
1362	Applications of Supermolecules – Molecular Devices and Nanotechnology. **2006**, 137-174	
1361	Organic/metal interfaces in self-assembled monolayers of conjugated thiols: A first-principles benchmark study. **2006**, 600, 4548-4562	122
1360	Fabrication of Au–molecule–Au junctions using electromigration method. **2006**, 499, 90-94	13
1359	Synthesis and self-assembly of novel porphyrin molecular wires. **2006**, 499, 23-28	25
1358	Models of charge transport and transfer in molecular switch tunnel junctions of bistable catenanes and rotaxanes. **2006**, 324, 280-290	41
1357	Coulomb blockade in molecular quantum dots. **2006**, 4, 8-19	2
1356	Spin-dependent transport through magnetic nanojunctions. **2006**, 4, 30-41	4
1355	Synthesis of fullerene adducts with terpyridyl- or pyridylpyrrolidine groups in trans-1 positions. **2006**, 12, 2846-53	25
1354	Tuning the thermotropic and lyotropic properties of liquid-crystalline terpyridine ligands. **2006**, 12, 4261-74	40

1353	Charge transport in three-terminal molecular junctions incorporating sulfur-end-functionalized tercyclohexylidene spacers. **2006**, 45, 2540-2	19
1352	Conductance and stochastic switching of ligand-supported linear chains of metal atoms. **2006**, 45, 5814-8	168
1351	Synthesis of Macrocyclic Molecular Rods as Potential Electronic Devices. **2006**, 2006, 3809-3825	33
1350	Theoretical investigations on the geometric and electronic structures of phenylene-acetylene macrocycles. **2006**, 7, 2593-600	21
1349	Synthesis, Structure, and Optical Properties of Terminally Sulfur-Functionalized Core-Substituted Naphthalene-Bisimide Dyes. **2006**, 89, 1986-2005	39
1348	Electronic Conduction in Photoactive Metallo-wires. **2006**, 26-89	11
1347	Charge Transport in Three-Terminal Molecular Junctions Incorporating Sulfur-End-Functionalized Tercyclohexylidene Spacers. **2006**, 118, 2602-2604	6
1346	Conductance and Stochastic Switching of Ligand-Supported Linear Chains of Metal Atoms. **2006**, 118, 5946-5950	20
1345	A New Molecular Switch Based on Helical Biladienone. **2006**, 18, 2523-2528	11
1344	Formation of Single Pt Atoms on Thiolated Carbon Nanotubes Using a Moderate and Large-Scale Chemical Approach. **2006**, 18, 2634-2638	22
1343	Periodical Variation of Electronic Properties in Polyhydroxylated Metallofullerene Materials. **2006**, 18, 1458-1462	27
1342	Electronic Structure Calculations for Nanomolecular Systems. **2006**, 77-116	2
1341	Architectures and Simulations for Nanoprocessor Systems Integrated on the Molecular Scale. **2006**, 479-512	7
1340	A simple procedure for fabricating molecular-sized gap junctions using conventional photolithography. **2006**, 17, 2406-2410	4
1339	1-to2-nm-wide nanogaps fabricated with single-walled carbon nanotube shadow masks. **2006**, 24, 3213	12
1338	Self-consistent study of single molecular transistor modulated by transverse field. **2006**, 125, 084710	15
1337	Phonon-assisted Kondo effect in a single-molecule transistor out of equilibrium. **2006**, 18, 5435-5446	24
1336	Single Electron Tunneling in Small Molecules. **2006**, 207-228	1

1335	Fano effect through parallel-coupled double Coulomb islands. **2006**, 18, 8961-8972	37
1334	Transistors at the Molecular Scale. **2006**, 182-211	
1333	Benchmarking the performance of density functional theory based Green's function formalism utilizing different self-energy models in calculating electronic transmission through molecular systems. **2006**, 125, 204717	26
1332	Nanotechnology: Science and Computation. **2006**,	9
1331	Quantum-tunneling-induced Kondo effect in single molecular magnets. **2006**, 96, 196601	158
1330	Influence of exchange interaction on spin-dependent transport through a single quantum dot doped with a magnetic ion. **2006**, 74,	16
1329	CMOL: Devices, Circuits, and Architectures. **2006**, 447-477	58
1328	Vibration-mode-induced Shapiro steps and back action in Josephson junctions. **2006**, 73,	10
1327	Theory of the Franck-Condon blockade regime. **2006**, 74,	199
1326	Nanogaps by direct lithography for high-resolution imaging and electronic characterization of nanostructures. **2006**, 88, 063116	67
1325	Nonequilibrium conductance of a three-terminal quantum dot in the Kondo regime: Perturbative renormalization group study. **2006**, 73,	27
1324	Model of resonant quantum tunneling through isolated molecules. **2006**, 74,	
1323	Vibration-induced Kondo tunneling through metal-organic complexes with even electron occupation number. **2006**, 96, 176801	15
1322	Gaussian phase-space representations for fermions. **2006**, 73,	43
1321	Berry-phase oscillations of the Kondo effect in single-molecule magnets. **2006**, 97, 126601	107
1320	Zero-bias molecular electronics: Exchange-correlation corrections to Landauer's formula. **2006**, 73,	160
1319	Electron transport in self-assembled polymer molecular junctions. **2006**, 96, 027801	68
1318	Gold surface with sub-nm roughness realized by evaporation on a molecular adhesion monolayer. **2006**, 88, 151917	59

1317	Field effects on electron conduction through self-assembled monolayers. **2006**, 89, 133120	6
1316	Conductance in Coulomb blockaded molecules: fingerprints of wave-particle duality?. **2006**, 32, 751-758	14
1315	Atomic scale control of single molecule charging. **2006**, 124, 131101	34
1314	Spin-dependent electronic transport through a porphyrin ring ligating an Fe(II) atom: An ab initio study. **2006**, 74,	37
1313	Inelastic tunneling effects on noise properties of molecular junctions. **2006**, 74,	85
1312	Probing electronic excitations in molecular conduction. **2006**, 73,	104
1311	Asymmetric electrode-molecule transport dynamics tracked by nanoscale electroluminescence. **2006**, 74,	7
1310	Transport through anisotropic magnetic molecules with partially ferromagnetic leads: Spin-charge conversion and negative differential conductance. **2006**, 73,	113
1309	Model of a gate-controlled spin filter based on a polymer coupled to a quantum wire. **2006**, 73,	18
1308	Thermoelectric effects in strongly interacting quantum dot coupled to ferromagnetic leads. **2006**, 73,	91
1307	Laser-cooled atoms as a focused ion-beam source. **2006**, 74,	37
1306	Enhanced differential conductance through light induced current switching in Mn12 acetate molecular junctions. **2006**, 89, 212104	11
1305	Organometallic molecular rectification. **2006**, 124, 024718	67
1304	Kondo-transport spectroscopy of single molecule magnets. **2006**, 97, 206601	82
1303	Correlated hybridization in transition-metal complexes. **2006**, 96, 196401	14
1302	Inelastic effects in Aharonov-Bohm molecular interferometers. **2006**, 97, 266803	24
1301	Kondo effects in carbon nanotubes: From SU(4) to SU(2) symmetry. **2006**, 74,	78
1300	Electron transport through an interacting region: The case of a nonorthogonal basis set. **2006**, 73,	59

1299	All-optical digital logic: Full addition or subtraction on a three-state system. **2006**, 73,	39
1298	Nonequilibrium molecular vibrons: An approach based on the nonequilibrium Green function technique and the self-consistent Born approximation. **2006**, 73,	69
1297	Charge injection into discrete states of individual electroluminescent Au nanoclusters. **2006**, 74,	7
1296	Electron-phonon correlation effects in molecular transistors. **2006**, 74,	23
1295	Electrical detection of spin excitations. **2006**, 73,	8
1294	Conductance of a molecule with a center of mass motion. **2006**, 74,	20
1293	Planar nanoscale architecture for organic thin-film field-effect transistors. **2006**, 89, 203118	1
1292	Spin-charge separation and simultaneous spin and charge Kondo effect. **2006**, 74,	21
1291	Transport in molecular junctions with different metallic contacts. **2006**, 74,	42
1290	Electrochemistry: Applications in Inorganic Chemistry Based in part on the article Electrochemistry: Applications in Inorganic Chemistry by Robert H. Crabtree which appeared in the Encyclopedia of Inorganic Chemistry, First Edition.. **2006**,	1
1289	3D Micro- and Nanofabrication and Their Medical Application. **2006**, 97-143	
1288	Electronic transport properties of the single-impurity Anderson model. **2007**, 16, 2096-2100	5
1287	The transport properties in an AharonovBohm interferometer with a quantum dot. **2007**, 16, 2101-2105	6
1286	Nanostructured Electronics and Optoelectronic Materials. **2007**, 677-717	1
1285	Chapter 5 Modeling molecular switches: a flexible molecule anchored to a surface. **2007**, 141-162	
1284	Magneto-transport through single-molecule magnets: Kondo-peaks, zero-bias dips, molecular symmetry and Berry's phase. **2007**, 9, 344-344	19
1283	Current measurements in a wide dynamic range-applications in electrochemical nanotechnology. **2007**, 18, 424004	44
1282	Hybrid semiconductor/nanoelectronic circuits: Freeing advanced lithography from the alignment accuracy burden. **2007**, 25, 2531	6

1281	Effect of the continuity of the pi conjugation on the conductance of ruthenium-octene-ruthenium molecular junctions. **2007**, 126, 174706	9
1280	Study of strongly correlated electrons in nanoscopic and bulk forms: some recent results. **2007**, 19, 125213	4
1279	Three Contact Modes of Amino Terminal Groups on Gold in Single Molecular Junction of Au/1,4-Diaminobutane/Au. **2007**, 46, 7829-7837	7
1278	Electrical characterization of a phenylacetylene-modified silicon surface via mercury probe. **2007**, 19, 446003	10
1277	MOLECULAR SELF-ASSEMBLY: A TOOLKIT FOR ENGINEERING AT THE NANOMETER SCALE. **2007**, 127-165	
1276	The effect of bonding of a CO molecule on the conductance of atomic metal wires. **2007**, 18, 035205	38
1275	First-principles calculation on the zero-bias conductance of a gold/1,4-diaminobenzene/gold molecular junction. **2007**, 18, 345203	25
1274	Characterizing and Manipulating Individual Molecules by Scanning Tunneling Microscopy. **2007**, 20, 468-474	3
1273	Topological analysis of Au particles in Au/SiO2nanocomposite films designed for molecular conduction measurement through Voronoi diagram. **2007**, 18, 145703	7
1272	Au/SiO2nanocomposite film substrates with a high number density of Au nanoparticles for molecular conductance measurement. **2007**, 18, 205501	11
1271	Fermi-liquid theory for the persistent current past a side-coupled quantum dot. **2007**, 75,	5
1270	Tunnel current through a redox molecule coupled to classical phonon modes in the strong tunneling limit. **2007**, 76,	25
1269	Josephson effect through a quantum dot array. **2007**, 76,	20
1268	Transport through a quantum dot with SU(4) Kondo entanglement. **2007**, 75,	36
1267	Controlling spin-polarized electron transport through a molecule: The role of molecular conformation. **2007**, 76,	25
1266	Inelastic transport theory from first principles: Methodology and application to nanoscale devices. **2007**, 75,	330
1265	Contact printed Co/insulator/Co molecular junctions. **2007**, 90, 163114	6
1264	Molecular junctions in the Coulomb blockade regime: Rectification and nesting. **2007**, 76,	35

1263	Charge-switchable molecular magnet and spin blockade of tunneling. **2007**, 75,	42
1262	Vibration-mediated resonant tunneling and shot noise through a molecular quantum dot. **2007**, 76,	24
1261	Kondo effect with noncollinear polarized leads: A numerical renormalization group analysis. **2007**, 75,	31
1260	Nonequilibrium resonant spectroscopy of molecular vibrons. **2007**, 76,	30
1259	Electronic transport through magnetic molecules with soft vibrating modes. **2007**, 76,	32
1258	Phonons and conduction in molecular quantum dots: Density functional calculations of Franck-Condon emission rates for bifullerenes in external fields. **2007**, 76,	12
1257	Influence of metal-molecule contacts on decay coefficients and specific contact resistances in molecular junctions. **2007**, 76,	63
1256	Cotunneling and nonequilibrium magnetization in magnetic molecular monolayers. **2007**, 75,	58
1255	Surface-Active Mononuclear and Dinuclear Ru(II) Complexes based on Thio-substituted Terpyridines Bearing Cyclodextrin Recognition Units. **2007**, 19, 115-127	7
1254	Inelastic effects in molecular junctions in the Coulomb and Kondo regimes: Nonequilibrium equation-of-motion approach. **2007**, 76,	74
1253	Slave boson theory for transport through magnetic molecules with vibronic states. **2007**, 76,	10
1252	Spin-half Kondo effect in a single self-assembled InAs quantum dot with and without an applied magnetic field. **2007**, 76,	36
1251	Self-interaction and molecular Coulomb blockade transport in ab initio Hartree-Fock theory. **2007**, 76,	7
1250	Feedback controlled electromigration in four-terminal nanojunctions. **2007**, 91, 053118	60
1249	First-principles scattering-state approach for nonlinear electrical transport in nanostructures. **2007**, 76,	50
1248	Theory of High Bias Coulomb Blockade in Ultrashort Molecules. **2007**, 6, 536-544	22
1247	Ab initio study of single-molecule rotation switch based on nonequilibrium Green's function theory. **2007**, 127, 084107	13
1246	Statistical analysis of electronic properties of alkanethiols in metal–molecule–metal junctions. **2007**, 18, 315204	105

1245	AC Conductance Through a Vibrating Molecular Dot in Kondo Regime. **2007**, 48, 1107-1114	6
1244	Ballistic electron microscopy of individual molecules. **2007**, 315, 1824-8	41
1243	Molecular Machines. **2007**, 11-1-11-48	
1242	Large branched self-assembled DNA complexes. **2007**, 61, 1241-1245	
1241	The Kondo resonance in a single InAs quantum dot probed by nanogap electrodes. **2007**, 61, 463-466	1
1240	Negative differential resistance at sequential single-electron tunnelling through atoms and molecules. **2007**, 18, 424006	28
1239	Measurement of single-molecule conductance. **2007**, 58, 535-64	342
1238	Molecular transport junctions: vibrational effects. **2007**, 19, 103201	552
1237	Tuning the Kondo effect with a mechanically controllable break junction. **2007**, 99, 026601	161
1236	Functional molecules in electronic circuits. **2007**, 5, 2343-53	94
1235	Accurate determination of multiple sets of single molecular conductance of Au/1,6-hexanedithiol/Au break junctions by ultra-high vacuum-scanning tunneling microscope and analyses of individual current-separation curves. **2007**, 18, 424005	24
1234	A novel testbed structure for nanoshell based devices. **2007**, 18, 255203	2
1233	Detecting Individual Electrons Using a Carbon Nanotube Field-Effect Transistor. **2007**, 7, 3766-3769	40
1232	Dinuclear transition-metal terpyridine complexes with a dithienylcyclo- pentene bridge directed toward molecular electronic applications. **2007**, 46, 10470-2	68
1231	In situ imaging of electromigration-induced nanogap formation by transmission electron microscopy. **2007**, 91, 072107	74
1230	Electrochemical Fabrication of Metal Nanocontacts and Nanogaps. 167-194	2
1229	Cobaltocene as a spin filter. **2007**, 127, 141104	46
1228	Fabrication of nanogapped single-electron transistors for transport studies of individual single-molecule magnets. **2007**, 101, 09E102	59

1227	Prospects for the development of digital CMOL circuits. **2007**,	12
1226	Tunneling through magnetic molecules with arbitrary angle between easy axis and magnetic field. **2007**, 76,	36
1225	Thermoelectricity in molecular junctions. **2007**, 315, 1568-71	726
1224	Novel Hybrid Voltage Controlled Ring Oscillators Using Single Electron and MOS Transistors. **2007**, 6, 146-157	20
1223	Electron transport properties of calix[4]arene based systems in a metal‐molecule‐metal junction. **2007**, 31, 756-761	3
1222	Metal-mediated transport of electrons across molecular films. **2007**, 804-6	10
1221	Archetypical modeling and amphiphilic behavior of cobalt(II)-containing soft-materials with asymmetric tridentate ligands. **2007**, 46, 9808-18	37
1220	Efficacy of Au‐Au Contacts for Scanning Tunneling Microscopy Molecular Conductance Measurements. **2007**, 111, 17635-17639	24
1219	Chain polymerization of diacetylene compound multilayer films on the topmost surface initiated by a scanning tunneling microscope tip. **2007**, 23, 5247-50	37
1218	Theoretical Investigation of Optimized Structures of Thiolated Gold Cluster [Au25(SCH3)18]+. **2007** , 111, 45-49	97
1217	Origin of the humidity sensitivity of Al/AlO(x)/MHA/Au molecular tunnel junctions. **2007**, 129, 14470-4	19
1216	Molecular Electronics with Endohedral Metallofullerenes: The Test Case of La2@C80 Nanojunctions. **2007**, 111, 17640-17645	20
1215	Switchable semiconductive property of the polyhydroxylated metallofullerene. **2007**, 111, 11929-34	18
1214	Electronic excitations of a single molecule contacted in a three-terminal configuration. **2007**, 7, 3336-42	115
1213	Transcending binary logic by gating three coupled quantum dots. **2007**, 7, 2795-9	29
1212	Molecular electrodes at the exposed edge of metal/insulator/metal trilayer structures. **2007**, 129, 4929-38	44
1211	Fast polaron switching in degenerate molecular quantum dots. **2007**, 19, 255203	13
1210	A Single-Molecule Switch and Memory Element. **2007**, 61, 987-991	4

1209	Fowler–Nordheim Tunneling in Electromigrated Break Junctions with Porphyrin Molecules. **2007**, 46, 2683-2686	11
1208	Imaging electromigration during the formation of break junctions. **2007**, 7, 652-6	106
1207	Electron Transport through Three-Terminal C60 Molecular Bridge. **2007**, 121-123, 685-688	
1206	Ab initio GW electron-electron interaction effects in quantum transport. **2007**, 75,	93
1205	Temperature and Length Dependence of Charge Transport in Redox-Active Molecular Wires Incorporating Ruthenium(II) Bis(Ethynylacetylide) Complexes. **2007**, 111, 7521-7526	157
1204	Site-specific kondo effect at ambient temperatures in iron-based molecules. **2007**, 99, 106402	227
1203	The Emergence of a Coupled Quantum Dot Array in a Doped Silicon Nanowire Gated by Ultrahigh Density Top Gate Electrodes. **2007**, 111, 17852-17860	3
1202	Single-molecule field-effect transistors: A computational study of the effects of contact geometry and gating-field orientation on conductance-switching properties. **2007**, 75,	18
1201	Spins in few-electron quantum dots. **2007**, 79, 1217-1265	1828
1200	The Role of Charge Localization in Current-Driven Dynamics. **2007**, 47, 99-104	3
1199	A Novel Hybrid Phase-Locked-Loop Frequency Synthesizer Using Single-Electron Devices and CMOS Transistors. **2007**, 54, 2516-2527	11
1198	Toward control of the metal-organic interfacial electronic structure in molecular electronics: a first-principles study on self-assembled monolayers of pi-conjugated molecules on noble metals. **2007**, 7, 932-40	244
1197	Ferromagnetic Filled Carbon Nanotubes as Novel and Potential Containers for Anticancer Treatment Strategies. **2007**,	3
1196	Bis-alkynyl diruthenium compounds with built-in electronic asymmetry: toward an organometallic Aviram-Ratner diode. **2007**, 13, 6874-82	39
1195	Amphiphilic and magnetic properties of a new class of cluster-bearing [L2Cu4(mu4-O)(mu2-carboxylato)4] soft materials. **2007**, 13, 9948-56	25
1194	Encoding molecular-wire formation within nanoscale sockets. **2007**, 46, 3892-5	62
1193	Encoding Molecular-Wire Formation within Nanoscale Sockets. **2007**, 119, 3966-3969	14
1192	Charge Transport through Oligoarylene Self-assembled Monolayers: Interplay of Molecular Organization, Metal–Molecule Interactions, and Electronic Structure. **2007**, 17, 3816-3828	37

1191	Molecular Transport Junctions: Clearing Mists. **2007**, 19, 23-31	434
1190	Addition Energies and Vibrational Fine Structure Measured in Electromigrated Single-Molecule Junctions Based on an Oligophenylenevinylene Derivative. **2007**, 19, 281-285	115
1189	Defect-tolerant nanoelectronic pattern classifiers. **2007**, 35, 239-264	47
1188	Ultrafast voltammetry for probing interfacial electron transfer in molecular wires. **2007**, 8, 1321-9	76
1187	Novel fabrication technologies of planar nano-gap electrodes for single molecule evaluation. **2007**, 7, 329-333	8
1186	RETRACTED: Langmuir–Blodgett films of single-walled carbon nanotubes. **2007**, 45, 493-498	13
1185	Construction of redox- and photo-functional molecular systems on electrode surface for application to molecular devices. **2007**, 251, 2674-2687	83
1184	I/V characteristics of a molecular switch. **2007**, 333, 26-36	9
1183	Electrochemical characterization of redox centers organized at Hg surfaces. **2007**, 360, 1095-1101	3
1182	Formation of nanogaps by nanoscale Cu electrodeposition and dissolution. **2007**, 52, 4210-4214	5
1181	Adsorption dynamics and interfacial properties of thiol-based cobalt terpyridine monolayers. **2007**, 52, 6692-6699	7
1180	Conductance and shot noise of inelastic tunneling through a quantum dot in the Kondo regime. **2007**, 364, 429-433	1
1179	Molecular electronic switch using Carbon nanotube electrodes. **2007**, 371, 465-468	4
1178	Kondo effect in organometallic complexes with vibrating ligand shells. **2007**, 310, 2414-2416	2
1177	Dynamical symmetries and quantum transport through nanostructures. **2007**, 4, 3362-3373	4
1176	Protein conduction and negative differential resistance in large-scale nanojunction arrays. **2007**, 3, 1184-8	38
1175	Synthesis of molecular wires of linear and branched bis(terpyridine)-complex oligomers and electrochemical observation of through-bond redox conduction. **2007**, 2, 367-76	83
1174	Controllable π-junction in a Josephson quantum-dot device with molecular spin. **2007**, 57, 279-289	27

1173	A single molecule spin pump. **2007**, 365, 505-509	6
1172	Fabrication and transport of large-scale molecular tunnel-junction arrays. **2007**, 84, 1585-1588	3
1171	Phonon-assisted Kondo effect in single-molecule quantum dots coupled to ferromagnetic leads. **2008**, 372, 6944-6951	7
1170	A quantum chemistry study of diethynylbenzene macrocycles: Structural and electronic properties. **2008**, 861, 7-13	6
1169	Out-of-Equilibrium Singlet-Triplet Kondo Effect in a Single C60 Quantum Dot. **2008**, 153, 350-358	6
1168	Current-induced conformational switching in single-molecule junctions. **2008**, 93, 345-354	31
1167	The electrochemical behavior of a system with a limited number of molecules. **2008**, 12, 701-706	3
1166	Inelastic electron tunneling spectroscopy. **2008**, 11, 46-50	69
1165	Charge transport through a cardan-joint molecule. **2008**, 4, 2229-35	60
1164	Charge transport and single-electron effects in nanoscale systems. **2008**, 245, 1455-1470	67
1163	Kondo effects in a C60 single-molecule transistor. **2008**, 245, 1994-1997	5
1162	Visible-light photochromism of triarylamine- or ferrocene-bound diethynylethenes that switches electronic communication between redox sites and luminescence. **2008**, 14, 6978-86	44
1161	Interfacial behavior and film patterning of redox-active cationic copper(II)-containing surfactants. **2008**, 14, 9665-74	17
1160	Carbon nanotube, graphene, nanowire, and molecule-based electron and spin transport phenomena using the nonequilibrium Green's function method at the level of first principles theory. **2008**, 29, 1073-83	79
1159	Quaterpyridine Ligands Forming Helical Complexes of Mono- and Dinuclear (Helicate) Forms. **2008**, 2008, 2910-2920	35
1158	First-principles studies: Thiolated Au2Cr and Au6Cr clusters. **2008**, 40, 3193-3198	5
1157	Bond energy and electronic structure in M-bis-terpyridine complexes (, Co and Ru). **2008**, 372, 1885-1889	5
1156	CMOL: Second life for silicon?. **2008**, 39, 177-183	18

1155	Making contact: Connecting molecules electrically to the macroscopic world. **2008**, 83, 217-261	168
1154	Molecular-scale electronics. **2008**, 9, 78-94	54
1153	Bandwidth, intensity, and lineshape of the transmission spectrum in the single molecular junction. **2008**, 457, 279-283	12
1152	Molecular switches for electron and energy transfer processes based on metal complexes. **2008**, 252, 32-56	84
1151	Simulation of the electrical characteristics of a one-dimensional quantum dot array. **2008**, 44, 721-727	4
1150	Theoretical investigations of transport through a Kondo dot with a side-coupled noninteracting quantum-dot array. **2008**, 146, 502-505	4
1149	Characterization of the tip-loading force-dependent tunneling behavior in alkanethiol metal-molecule-metal junctions by conducting atomic force microscopy. **2008**, 108, 1196-9	9
1148	Observation of negative differential resistance and single-electron tunneling in electromigrated break junctions. **2008**, 516, 2762-2766	11
1147	Anomalous gate dependence of the Kondo effect in single-molecule transistors. **2008**, 403, 1526-1528	3
1146	Magnetic single-electron transistor as a tunable model system for Kondo-destroying quantum criticality. **2008**, 403, 1189-1193	4
1145	Measuring relative barrier heights in molecular electronic junctions with transition voltage spectroscopy. **2008**, 2, 827-32	228
1144	Origin of negative differential resistance in a strongly coupled single molecule-metal junction device. **2008**, 100, 246801	76
1143	Molecular spintronics using single-molecule magnets. **2008**, 7, 179-86	2470
1142	Tunnelling spectra of individual magnetic endofullerene molecules. **2008**, 7, 884-9	93
1141	CMOS-compatible fabrication of room-temperature single-electron devices. **2008**, 3, 603-8	73
1140	Molecular junctions: Seeing is believing. **2008**, 3, 187-8	19
1139	The role of magnetic anisotropy in the Kondo effect. **2008**, 4, 847-850	264
1138	Structure and magnetism of dinuclear copper(II) metallacyclophanes with oligoacenebis(oxamate) bridging ligands: theoretical predictions on wirelike magnetic coupling. **2008**, 130, 576-85	60

1137	Electron–phonon scattering in molecular electronics: from inelastic electron tunnelling spectroscopy to heating effects. **2008**, 10, 065020	23
1136	Direct Monitoring of Ultrafast Redox Commutation at the Nanosecond and Nanometer Scales by Ultrafast Voltammetry: From Molecular Wires to Cation Releasing Systems. **2008**, 48, 203-214	14
1135	Molecular Electronics: Effect of External Electric Field. **2008**, 112, 14718-14730	62
1134	Unimolecular electronics. **2008**, 18, 4364	136
1133	Strong polarization-induced reduction of addition energies in single-molecule nanojunctions. **2008**, 8, 3809-14	103
1132	The interface energetics of self-assembled monolayers on metals. **2008**, 41, 721-9	340
1131	Real-time path integral approach to nonequilibrium many-body quantum systems. **2008**, 100, 176403	249
1130	Single-molecule electron transfer in electrochemical environments. **2008**, 108, 2737-91	247
1129	Functional molecular wires. **2008**, 10, 1859-66	23
1128	Electronic transport through ruthenium-based redox-active molecules in metal-molecule-metal nanogap junctions. **2008**, 8, 2131-6	152
1127	Novel Quantum Transport Effects in Single-Molecule Transistors. **2008**, 99-109	
1126	Quantum coherence effect in spin-polarized transport through nano-magnets. **2008**, 20, 415216	1
1125	Bioinorganic Electrochemistry. **2008**,	16
1124	Molecular transistors based on BDT-type molecular bridges. **2008**, 129, 154112	12
1123	Nanogaps with very large aspect ratios for electrical measurements. **2008**, 92, 113102	50
1122	Electron transfer through molecules and assemblies at electrode surfaces. **2008**, 108, 2721-36	113
1121	Linear optical response of current-carrying molecular junction: a nonequilibrium Green's function-time-dependent density functional theory approach. **2008**, 128, 124705	44
1120	Vibration-induced correction to the current through a single molecule. **2008**, 77,	79

1119	Gating of single molecule transistors: combining field-effect and chemical control. **2008**, 128, 154706	25
1118	Electronic transport in single molecule junctions: control of the molecule-electrode coupling through intramolecular tunneling barriers. **2008**, 8, 1-5	145
1117	Electrical conduction through single molecules and self-assembled monolayers. **2008**, 20, 013001	201
1116	Alligator clips to molecular dimensions. **2008**, 20, 374116	23
1115	Exploring electronic transport in molecular junctions by conducting atomic force microscopy. **2008**, 285, 157-202	19
1114	Nuclear coupling and polarization in molecular transport junctions: beyond tunneling to function. **2008**, 319, 1056-60	256
1113	Simultaneous measurements of electronic conduction and Raman response in molecular junctions. **2008**, 8, 919-24	256
1112	Magnetoresistance of nanoscale molecular devices based on Aharonov-Bohm interferometry. **2008**, 20, 383201	25
1111	Spin effects in single-electron tunnelling. **2008**, 20, 423202	67
1110	Electronic and optical properties of electromigrated molecular junctions. **2008**, 20, 374118	37
1109	Quantum transport in a resonant tunnel junction coupled to a nanomechanical oscillator. **2008**, 77,	18
1108	Synthesis and Characterization of a Thiol-Tethered Tripyridyl Porphyrin on Au(111). **2008**, 112, 6110-6118	35
1107	Electronic correlation in nanoscale junctions: Comparison of the GW approximation to a numerically exact solution of the single-impurity Anderson model. **2008**, 77,	48
1106	Charge transport mediated by d-orbitals in transition metal complexes. **2008**, 247-9	22
1105	From self-assembly to charge transport with single molecules - an electrochemical approach. **2009**, 287, 181-255	17
1104	Electrolyte gating in redox-active tunneling junctions--an electrochemical STM approach. **2008**, 130, 16045-54	141
1103	Charge transport in single Au / alkanedithiol / Au junctions: coordination geometries and conformational degrees of freedom. **2008**, 130, 318-26	411
1102	Conductance of a cobalt(II) terpyridine complex based molecular transistor: a computational analysis. **2008**, 112, 2043-8	22

1101	Syntheses, crystal structures, and spectral properties of a series of 3,8-Bisphenyl-1,10-phenanthroline derivatives: precursors of 3,8-Bis(4-mercaptophenyl)-1,10-phenanthroline and Its ruthenium(II) complex for preparing nanocomposite junctions with gold nanoparticles between 1 microm gap gold electrodes. **2008**, 47, 468-80	36
1100	Ab initio explanation of tunneling line shapes for the kondo impurity state. **2008**, 8, 1265-9	24
1099	Electrochemically controlled conductance switching in a single molecule: quinone-modified oligo(phenylene vinylene). **2008**, 2, 1289-95	57
1098	Vibrational excitation in single-molecule transistors: deviation from the simple franck-condon prediction. **2008**, 8, 2963-7	41
1097	Symmetry controlled spin polarized conductance in au nanowires. **2008**, 130, 9897-903	20
1096	Odd-even effects in self-assembled monolayers of omega-(biphenyl-4-yl)alkanethiols: a first-principles study. **2008**, 24, 474-82	69
1095	Redox-Active Molecular Wires Incorporating Ruthenium(II) Arylacetylide Complexes for Molecular Electronics. **2008**, 27, 509-518	80
1094	Ferrocene-Based Nanoelectronics: Regioselective Syntheses and Electrochemical Characterization of Monothiol and Dithiol, Phenylethynyl-Conjugated, 2,5-Diethynylpyridyl- and Pyridinium-Linked Diferrocene Frameworks Having an End-to-End Distance of ~4 nm. **2008**, 27, 927-937	36
1093	Modeling time-dependent current through electronic open channels using a mixed time-frequency solution to the electronic equations of motion. **2008**, 78,	31
1092	A Comprehensive Study of the Single Molecule Conductance of Dicarboxylic Acid-Terminated Alkanes. **2008**, 112, 3941-3948	46
1091	A [4Fe-4S] cluster dimer bridged by bis(2,2':6',2''-terpyridine-4'-thiolato)iron(II). **2008**, 47, 2849-57	9
1090	Conduction properties of bipyridinium-functionalized molecular wires. **2008**, 130, 9013-8	48
1089	Contacting organic molecules by soft methods: towards molecule-based electronic devices. **2008**, 41, 359-66	114
1088	Method to study highly correlated nanostructures: The logarithmic-discretization embedded-cluster approximation. **2008**, 78,	31
1087	Universal scaling in nonequilibrium transport through a single channel Kondo dot. **2008**, 100, 246601	119
1086	Ultrafast electron transfer dynamics at NH3/Cu(111) interfaces: determination of the transient tunneling barrier. **2008**, 130, 8797-803	25
1085	Extending the capability of STM break junction for conductance measurement of atomic-size nanowires: an electrochemical strategy. **2008**, 130, 13228-30	58
1084	Single molecule electronics: increasing dynamic range and switching speed using cross-conjugated species. **2008**, 130, 17309-19	118

1083	Self-assembled monolayers of a bis(pyrazol-1-yl)pyridine-substituted thiol on Au(111). **2008**, 24, 12883-91	38
1082	A theoretical view on self-assembled monolayers in organic electronic devices. **2008**,	6
1081	Phonon-assisted spin-polarized tunneling through an interacting quantum dot. **2008**, 20, 275214	16
1080	Electrical characterization of alkane monolayers using micro-transfer printing: tunneling and molecular transport. **2008**, 10, 075001	5
1079	FLUCTUATIONS IN INELASTIC TUNNELING OF ELECTRONS THROUGH SERIALLY COUPLED DOUBLE QUANTUM DOTS. **2008**, 22, 4899-4907	1
1078	Kondo effect by controlled cleavage of a single-molecule contact. **2008**, 19, 065401	104
1077	Electronic transport in poly(CG) and poly(CT) DNA segments with diluted base pairing. **2008**, 20, 075109	12
1076	Effects of Contact Atomic Structure on Electronic Transport in Molecular Junction. **2008**, 25, 1840-1843	2
1075	The role of many-particle excitations in Coulomb blockaded transport. **2008**, 20, 374109	7
1074	Ballistic magnetoresistance?. **2008**, 20, 083201	29
1073	Vibration-mediated Kondo effect in a single-molecule quantum dot coupled to ferromagnetic electrodes. **2008**, 20, 045219	10
1072	Electrochemical gate-controlled electron transport of redox-active single perylene bisimide molecular junctions. **2008**, 20, 374122	32
1071	Inelastic electron tunnelling in saturated molecules with different functional groups: correlations and symmetry considerations from a computational study. **2008**, 20, 374111	5
1070	Amine-linked single-molecule circuits: systematic trends across molecular families. **2008**, 20, 374115	85
1069	Kondo effect in single cobalt phthalocyanine molecules adsorbed on Au(111) monoatomic steps. **2008**, 128, 234705	40
1068	Adiabatic pumping through a quantum dot in the Kondo regime: Exact results at the Toulouse limit. **2008**, 77,	15
1067	Kondo effect in single atom contacts: the importance of the atomic geometry. **2008**, 101, 216802	57
1066	Vibrating superconducting island in a Josephson junction. **2008**, 101, 067202	7

1065	Kondo effect and channel mixing in oscillating molecules. **2008**, 78,	23
1064	Role of the van der Waals interactions on the bonding mechanism of pyridine on Cu(110) and Ag(110) surface: First-principles study. **2008**, 78,	51
1063	Self-consistent theory of molecular switching. **2008**, 78,	61
1062	Optically induced hybridization of a quantum dot state with a filled continuum. **2008**, 100, 176801	34
1061	Kondo effect in single-molecule magnet transistors. **2008**, 78,	58
1060	Symmetry fingerprints of a benzene single-electron transistor: Interplay between Coulomb interaction and orbital symmetry. **2008**, 77,	56
1059	Quantum modulation of the Kondo resonance of Co adatoms on Cu/Co/Cu(100): Low-temperature scanning tunneling spectroscopy study. **2008**, 78,	29
1058	Localized polarons and doorway vibrons in finite quantum structures. **2008**, 77,	16
1057	Conductance of gold nanojunctions thinned by electromigration. **2008**, 93, 043118	40
1056	Spin-dependent transport in quantum dots mediated by Mn2+ ions. **2008**, 103, 07B707	
1055	. **2008**, 8, 885-890	5
1054	High Kondo temperature (TK~80K) in self-assembled InAs quantum dots laterally coupled to nanogap electrodes. **2008**, 93, 062101	14
1053	Rectification by charging: Contact-induced current asymmetry in molecular conductors. **2008**, 77,	15
1052	Two-electron bunching in transport through a quantum dot induced by Kondo correlations. **2008**, 77,	66
1051	Colossal spin fluctuations in a molecular quantum dot magnet with ferromagnetic electrodes. **2008**, 78,	7
1050	Electron-pair resonance in the coulomb blockade. **2008**, 100, 056809	7
1049	Berry-phase effects in transport through single Jahn-Teller molecules. **2008**, 77,	16
1048	Electron transport through a quantum dot in the Coulomb blockade regime: Nonequilibrium Green function based model. **2008**, 78,	29

1047	Transport properties and Kondo correlations in nanostructures: Time-dependent DMRG method applied to quantum dots coupled to Wilson chains. **2008**, 78,	62
1046	Spin-charge separation in molecular wire conductance simulations. **2008**, 78,	23
1045	Achievement of sensing single spin with the aid of Kondo resonance in quantum dot connected to ferromagnetic electrodes. **2008**, 92, 182104	3
1044	Optimal thermoelectric figure of merit of a molecular junction. **2008**, 78,	173
1043	In-situ preparation of a single molecular junction with mechanically controllable break junctions in vacuum. **2008**, 100, 052059	4
1042	Magnetic Skyrmions Could Act as Qubits. **2008**, 1,	2
1041	Pair tunnelling through a molecule: linear thermopower. **2008**, 104, 012005	3
1040	Synthesis of an Anthraquinone-Bridged bis(terpyridine) Ligand and its Use in the Stepwise Fabrication of Complex Oligomer Wires on Gold. **2008**, 270, 153-160	11
1039	Introduction to Single-Molecule Transistor. **2009**, 52, 504-512	
1038	Phonon-assisted dynamical Coulomb blockade in a thin suspended graphite sheet. **2009**, 79,	1
1037	Symmetry-controlled negative differential resistance effect in a triangular molecule. **2009**, 79,	34
1036	Misalignment of transverse anisotropies as a mechanism for suppression of Kondo effect in large spin single molecule magnets. **2009**, 79,	11
1035	Universal scaling of nonequilibrium transport in the Kondo regime of single molecule devices. **2009**, 79,	57
1034	Quantum phase transitions in a charge-coupled Bose-Fermi Anderson model. **2009**, 80,	10
1033	Observation of the underscreened Kondo effect in a molecular transistor. **2009**, 103, 197202	84
1032	Diffusion processes in single-atom electromigration along a gold chain: First-principles calculations. **2009**, 80,	9
1031	Phonon-assisted tunneling and two-channel Kondo physics in molecular junctions. **2009**, 79,	20
1030	Nonequilibrium conductance of asymmetric nanodevices in the Kondo regime. **2009**, 80,	42

1029	Interference effects on the transport characteristics of a benzene single-electron transistor. **2009**, 79,	62
1028	Reduced work functions in gold electromigrated nanogaps. **2009**, 80,	29
1027	Conductance of a single-atom carbon chain with graphene leads. **2009**, 80,	31
1026	Exchange and correlation in molecular wire conductance: nonlocality is the key. **2009**, 131, 034106	15
1025	Fabrication of nanometer-spaced superconducting Pb electrodes. **2009**, 95, 113115	7
1024	Nonthermal origin of electromigration at gold nanojunctions in the ballistic regime. **2009**, 94, 162103	45
1023	Identifying charge states of molecules with spin-flip spectroscopy. **2009**, 103, 257202	50
1022	Quantum interference in coherent molecular conductance. **2009**, 103, 266807	40
1021	MOLECULAR SPIN DEVICES: CURRENT UNDERSTANDING AND NEW TERRITORIES. **2009**, 04, 325-338	13
1020	Design and control of electron transport properties of single molecules. **2009**, 106, 15259-63	74
1019	Self-assembled nanogaps for molecular electronics. **2009**, 20, 245205	16
1018	Spin fluctuation effects on the conductance through a single Pd atom contact. **2009**, 21, 215602	4
1017	Green Function Techniques in the Treatment of Quantum Transport at the Molecular Scale. **2009**, 213-335	37
1016	Phonon affected transport through molecular quantum dots. **2009**, 21, 395601	13
1015	Measurement of voltage-dependent electronic transport across amine-linked single-molecular-wire junctions. **2009**, 20, 434009	39
1014	Electric transport properties of Mn12-acetate films measured with self-assembling tunnelling junction. **2009**, 42, 095104	3
1013	Andreev reflection and shot noise in a quantum dot with phonon modes. **2009**, 21, 095602	11
1012	Soft electrical contacts for conductivity measurements of molecularly modified surfaces. **2009**, 20, 015703	1

1011	Transport through metallic nanogaps in an in-plane three-terminal geometry. **2009**, 105, 014313		19
1010	Counting statistics of tunneling through a single molecule: Effect of distortion and displacement of vibrational potential surface. **2009**, 105, 113702		12
1009	Spin-flip processes of polarons by magnetic impurities in conjugated polymers. **2009**, 131, 154901		5
1008	New dimensions in non-classical neural computing, part II: quantum, nano, and optical. **2009**, 2, 513-573		6
1007	Progress with molecular electronic junctions: meeting experimental challenges in design and fabrication. **2009**, 21, 4303-22		321
1006	Fast High-Temperature Response of Carbon Nanotube Film and Its Application as an Incandescent Display. **2009**, 21, 3563-3566		77
1005	Charge-transfer state and large first hyperpolarizability constant in a highly electronically coupled zinc and gold porphyrin dyad. **2009**, 15, 9058-67		34
1004	On the Effect of Coordination and Protonation Preferences in the Amphiphilic Behavior of Metallosurfactants with Asymmetric Headgroups. **2009**, 2009, 345-356		24
1003	Spectral, Structural, and Computational Studies of a New Family of Ruthenium(II) Complexes Containing Substituted 1,10-Phenanthroline Ligands and in situ Electropolymerization of a Phenanthrolineruthenium(II) Complex Bridging Nanogap Gold Electrodes. **2009**, 2009, 1321-1330		25
1002	The first-principles calculation of molecular conduction. **2009**, 4, 327-336		1
1001	Kondo effect in oscillating molecules. **2009**, 246, 994-998		1
1000	Fabrication of clean nanogaps using a combined electrochemical-chemical method. **2009**, 5, 2541-4		6
999	The Kondo effect in ferromagnetic atomic contacts. *Nature*, **2009**, 458, 1150-3	50.4	120
998	A single-molecule optical transistor. *Nature*, **2009**, 460, 76-80	50.4	254
997	Observation of molecular orbital gating. *Nature*, **2009**, 462, 1039-43	50.4	617
996	Nanotechnology: Molecular transistors scrutinized. *Nature*, **2009**, 462, 994-5	50.4	31
995	Word of the Year. *Nature*, **2009**, 462, 995-995	50.4	
994	Highly conductive approximately 40-nm-long molecular wires assembled by stepwise incorporation of metal centres. **2009**, 8, 41-6		244

993	Molecular electronics with single molecules in solid-state devices. **2009**, 4, 551-6	332
992	Noisy Kondo impurities. **2009**, 5, 208-212	77
991	Superconductivity in a single-C60 transistor. **2009**, 5, 876-879	88
990	The logarithmic discretization embedded cluster approximation. **2009**, 404, 2689-2693	1
989	Features of photopolymerization of Langmiur-Blodgett thin films of acetylenic acids. **2009**, 518, 328-332	2
988	The Kondo effect observed up to TK~80K in self-assembled InAs quantum dots laterally coupled to nanogap electrodes. **2009**, 311, 1795-1798	
987	Effect of torsion angle on electronic transport through different anchoring groups in molecular junction. **2009**, 373, 3787-3794	14
986	Theoretical investigation of the O2 adsorption effect in the electron transport of single Fe-porphyrin molecule. **2009**, 373, 3974-3977	11
985	Synthesis and immobilization of molecular switches onto titaniumdioxide nanowires. **2009**, 28, 1728-1733	7
984	Dipole polarizabilities of trimetallic nitride endohedral fullerenes M3N@C2n (M=Sc and Y; 2n=68-98). **2009**, 475, 73-77	8
983	Direct observation of lanthanide(III)-phthalocyanine molecules on Au(111) by using scanning tunneling microscopy and scanning tunneling spectroscopy and thin-film field-effect transistor properties of Tb(III)- and Dy(III)-phthalocyanine molecules. **2009**, 131, 9967-76	196
982	Transport through quantum dots: a combined DMRG and embedded-cluster approximation study. **2009**, 67, 527-542	21
981	Spin excitations of a Kondo-screened atom coupled to a second magnetic atom. **2009**, 103, 107203	102
980	Superior electron-transport ability of pi-conjugated redox molecular wires prepared by the stepwise coordination method on a surface. **2009**, 4, 1361-7	57
979	Intramolecular electron arrangement with a rotative trigger. **2009**, 131, 14198-9	36
978	Single Molecule-Conductance Depending On Its Orientation. **2009**, 113, 26-30	7
977	Probing charge transport in single-molecule break junctions using inelastic tunneling. **2009**, 79,	5
976	Fabrication and electronic characterization of single molecular junction devices: a comprehensive approach. **2009**, 131, 10439-46	39

975	Spectroscopic manifestations of the Kondo effect on single adatoms. **2009**, 21, 053001	167
974	Electronic transport properties of 1,1'-ferrocene dicarboxylic acid linked to Al(111) electrodes. **2009**, 3, 4137-43	31
973	Modeling Selective Single Molecule Sensors for Transition Metal Ions. **2009**, 113, 16203-16209	11
972	The Kondo effect in coupled-quantum dots. **2009**, 72, 096501	44
971	Breaking mechanism of single molecular junctions formed by octanedithiol molecules and Au electrodes. **2009**, 131, 16418-22	20
970	Dithienylcyclopentenes-containing transition metal bisterpyridine complexes directed toward molecular electronic applications. **2009**, 48, 991-9	51
969	Transition-metal tris-bipyridines containing three dithienylcyclopentenes: synthesis, photochromic, and electrochromic properties. **2009**, 48, 7080-5	44
968	Charge transfer statistics of a molecular quantum dot with a vibrational degree of freedom. **2009**, 80,	78
967	Self-consistent non-equilibrium transport using plane waves. **2009**, 45, 1016-1024	11
966	Unimolecular electronics and rectifiers. **2009**, 159, 2277-2281	19
965	Organic radicals on surfaces: towards molecular spintronics. **2009**, 19, 1691-1695	100
964	5,15-Bis(di-p-anisylamino)-10,20-diphenylporphyrin: distant and intense electronic communication between two amine sites. **2009**, 5156-8	28
963	Molecular Devices. 707-775	
962	Charge and spin transport in strongly correlated one-dimensional quantum systems driven far from equilibrium. **2009**, 80,	82
961	Templates in Chemistry III. **2009**,	9
960	Equation of motion approach to the Anderson-Holstein Hamiltonian. **2009**, 79,	21
959	Understanding the anchoring group effect of molecular diodes on rectification. **2009**, 25, 1495-9	56
958	Organizing and addressing magnetic molecules. **2009**, 48, 3408-19	110

957	Local Electronic Properties of Titanocene Chloride Dimer Molecules on a Metal Surface. **2009**, 113, 677-680	3
956	Photoinduced electron transfer in ruthenium(II) trisbipyridine complexes connected to a naphthalenebisimide via an oligo(phenyleneethynylene) spacer. **2009**, 33, 408-416	16
955	From microelectronics to molecular spintronics: an explorer's travelling guide. **2009**, 19, 1696	44
954	A time-dependent momentum-space density functional theoretical approach for electron transport dynamics in molecular devices. **2009**, 88, 17008	11
953	Functional single-molecule devices based on SWNTs as point contacts. **2009**, 19, 5470	9
952	Molecular Electronics. **2009**, 39, 1-23	288
951	GW approach to Anderson model out of equilibrium: Coulomb blockade and false hysteresis in the IV characteristics. **2009**, 79,	47
950	Master equations for quantum transport with Franck-Condon blockade. **2009**, 80,	18
949	Molecular spintronics using single-molecule magnets. **2009**, 194-201	10
948	??????????????????/???????. **2009**, 77, 886-890	
947	Quantum dots. 299-412	
946	New trends for the Kondo effect in nanostructures. **2010**, 7, 438	
945	Coulombic Dragging and Mechanical Propelling of Molecules in Nanofluidic Systems. **2010**, 117-149	
944	Redox-Executed Logic Operations through the Reversible Voltammetric Response Characteristics of Electroactive Self-Assembled Monolayers. **2010**, 63, 173	7
943	Spin-Atomic Vibration Interaction and Spin-Flip Hamiltonian of a Single Atomic Spin in a Crystal Field. **2010**, 79, 114721	3
942	Molecular Nanomagnets. **2010**, 281-348	7
941	Linearly Aligned Metal Clusters: Versatile Reactivity and Bonding Nature of Tetrametal MIIIMoIIMoIIIM Complexes (M = Pt, Pd, Ir, and Rh) Supported by 6-Diphenylphosphino-2-pyridonato Ligand. **2010**, 83, 299-312	29
940	Mechanical control of spin states in spin-1 molecules and the underscreened Kondo effect. **2010**, 328, 1370-3	343

939	Integrating reaction chemistry into molecular electronic devices. **2010**, 5, 1040-57	21
938	Commensurate photon-irradiated Fano–Kondo tunneling through a quantum dot embedded Aharonov–Bohm interferometer. **2010**, 374, 770-777	6
937	Analysis of negative differential conductance of single-island single-electron transistors owing to Coulomb oscillations. **2010**, 4, 425	2
936	. **2010**, 98, 2111-2123	37
935	Electrochemically assisted fabrication of metal atomic wires and molecular junctions by MCBJ and STM-BJ methods. **2010**, 11, 2745-55	29
934	Oligoaryl Cruciform Structures as Model Compounds for Coordination-Induced Single-Molecule Switches. **2010**, 2010, 833-845	21
933	Nanogap electrodes. **2010**, 22, 286-300	219
932	1-nanometer-sized active-channel molecular quantum-dot transistor. **2010**, 22, 2182-6	19
931	Controlling electronic States and transport properties at the level of single molecules. **2010**, 22, 1967-71	19
930	Modeling the electronic properties of pi-conjugated self-assembled monolayers. **2010**, 22, 2494-513	107
929	Zero-frequency shot noise in an artificial single molecule magnet. **2010**, 42, 561-564	1
928	Spectroscopic analysis of electromigration at gold nanojunctions. **2010**, 42, 2826-2829	10
927	Rectification effect for spin- and charge-currents in a shuttled molecule transistor. **2010**, 374, 4156-4160	2
926	Porphyrins as Molecular Electronic Components of Functional Devices. **2010**, 254, 2297-2310	376
925	Revealing molecular orbital gating by transition voltage spectroscopy. **2010**, 377, 15-20	36
924	First-principles study of the field-induced current-switch by dithiocarboxylate anchoring group in molecular junction. **2010**, 10, 848-852	2
923	Fundamentals of energy transport, energy conversion, and thermal properties in organic–inorganic heterojunctions. **2010**, 491, 109-122	139
922	Conductance switching and vibrational fine structure of a [2 x 2] Co(II)(4) gridlike single molecule measured in a three-terminal device. **2010**, 6, 174-8	46

921	Controlling the state of quantum spins with electric currents. **2010**, 6, 340-344	250
920	. **2010**,	12
919	Single-electron transistors fabricated by electroless plated nanogap electrodes and chemisorbed Au nanoparticles. **2010**,	
918	Effects of bonding type and interface geometry on coherent transport through the single-molecule magnet Mn12. **2010**, 81,	18
917	Diffusion-limited and advection-driven electrodeposition in a microfluidic channel. **2010**, 81, 021601	6
916	Noise of Kondo dot with ac gate: Floquet Green's function and noncrossing approximation approach. **2010**, 81,	8
915	Probing the environment of an inaccessible system by a qubit ancilla. **2010**, 81,	14
914	Manipulating localized molecular orbitals by single-atom contacts. **2010**, 105, 126801	26
913	Tunable electron counting statistics in a single-molecule magnet. **2010**, 108, 033707	20
912	A photoresponsive single electron transistor prepared from oligothiophene molecules and gold nanoparticles in a nanogap electrode. **2010**, 96, 103117	19
911	Graphene and graphene oxide nanogap electrodes fabricated by atomic force microscopy nanolithography. **2010**, 97, 133301	57
910	Adiabatic polaron dynamics and Josephson effect in a superconducting molecular quantum dot. **2010**, 81,	8
909	Resonant and Kondo tunneling through molecular magnets. **2010**, 81,	32
908	Channel saturation and conductance quantization in single-atom gold constrictions. **2010**, 82,	16
907	Dynamical properties of a vibrating molecular quantum dot in a Josephson junction. **2010**, 81,	6
906	Spin-polarized current and shot noise in a carbon nanotube quantum dot in the Kondo regime. **2010** , 81,	33
905	On the conditions for enhanced transport through molecular junctions based on metal centres ligated by pairs of pyridazino-derived ligands. **2010**, 108, 2591-2599	2
904	Giant spin and orbital moment anisotropies of a Cu-phthalocyanine monolayer. **2010**, 82,	91

903	Density-operator approaches to transport through interacting quantum dots: Simplifications in fourth-order perturbation theory. **2010**, 82,	71
902	. **2010**, 10, 384-390	
901	Transport through a mixed-valence molecular transistor in the sequential-tunneling regime: Theoretical insight from the two-site Peierls-Hubbard model. **2010**, 133, 144705	14
900	QUANTUM PROPERTIES IN TRANSPORT THROUGH NANOSCOPIC RINGS: CHARGE-SPIN SEPARATION AND INTERFERENCE EFFECTS. **2010**, 24, 5068-5078	1
899	Effect of Dithiocarboxylate Anchoring Group on Electronic Transport in 4,4?-Biphenyldithiol Molecular Junction. **2010**, 428-429, 232-236	
898	Room temperature electron transport properties of single C60 studied using scanning tunneling microscope and break junctions. **2010**, 108, 053720	1
897	Transmission Spectra and Quantum Current Distribution of C60 Molecular Device Connected to Different Electrodes. **2010**,	
896	Rapid Nanomanufacturing of Metallic Break Junctions Using Focused Ion Beam Scratching and Electromigration. **2010**, 132,	16
895	Thermoelectricity at the Organic-Inorganic Interface. **2010**,	1
894	Single-Electron Transistor Fabricated by Two Bottom-Up Processes of Electroless Au Plating and Chemisorption of Au Nanoparticle. **2010**, 49, 090206	39
893	A versatile nanotechnology to connect individual nano-objects for the fabrication of hybrid single-electron devices. **2010**, 21, 445201	5
892	Verification of unzipping models of electromigration in gold nanocontacts by in situ high-resolution transmission electron microscopy. **2010**, 21, 495706	10
891	Correlations, quantum entanglement and interference in nanoscopic systems. **2010**, 2010, P11031	
890	Observation of two discrete conductivity states in quinone-oligo(phenylene vinylene). **2010**, 21, 85704	6
889	Modeling transient aspects of coherence-driven electron transport. **2010**, 220, 012008	3
888	Switching of functionalized azobenzene suspended between gold tips by mechanochemical, photochemical, and opto-mechanical means. **2010**, 12, 13922-32	58
887	Controlling the Magnetic Properties of a Single Phthalocyanine Molecule through its Strong Coupling with the GaAs Surface. **2010**, 1, 2757-2762	14
886	Electronic communication in dinuclear C(4)-bridged tungsten complexes. **2010**, 132, 3115-27	62

885	Scanning Tunneling Spectroscopy of Semiconductor Quantum Dots and Nanocrystals. **2010**, 183-216	2
884	Single-Electron Transistor and its Logic Application. **2010**, 45	
883	Charge transport through single molecules, quantum dots and quantum wires. **2010**, 21, 272001	87
882	Influence of conformation on conductance of biphenyl-dithiol single-molecule contacts. **2010**, 10, 156-63	252
881	Scaling properties of the Anderson model in the Kondo regime studied by CTW formalism. **2010**, 82,	4
880	The shot noise in a vibrating molecular dot in the Kondo regime. **2010**, 89, 37008	13
879	Charge transport through molecular switches. **2010**, 22, 133001	207
878	Kondo resonances in molecular devices. **2010**, 4, 3560-79	109
877	Local Pathways in Coherent Electron Transport through Iron Porphyrin Complexes: A Challenge for First-Principles Transport Calculations. **2010**, 114, 20813-20820	20
876	Nonlinear Optical Effects Induced by Nanoparticles in Symmetric Molecules. **2010**, 114, 20870-20876	13
875	The electronic structure of mixed self-assembled monolayers. **2010**, 4, 6735-46	34
874	Contact geometry symmetry dependence of field effect gating in single-molecule transistors. **2010**, 132, 2914-8	12
873	Charge Transfer Time in Alkanethiolate Self-Assembled Monolayers via Resonant Auger Electron Spectroscopy. **2010**, 114, 13766-13773	39
872	Surface junction effects on the electron conduction of molecular wires. **2010**, 132, 4524-5	87
871	Spin- and energy-dependent tunneling through a single molecule with intramolecular spatial resolution. **2010**, 105, 047204	240
870	Synthesis and properties of functionalized oligo(arylene) molecular wires with thiolated termini: competing thiol-Au and nitro-Au assembly. **2010**, 75, 130-6	17
869	Superior contact for single-molecule conductance: electronic coupling of thiolate and isothiocyanate on Pt, Pd, and Au. **2010**, 132, 756-64	112
868	Cyclic conductance switching in networks of redox-active molecular junctions. **2010**, 10, 759-64	104

867	Electrochemical control of stability and restructuring dynamics in Au-Ag-Au and Au-Cu-Au bimetallic atom-scale junctions. **2010**, 4, 2946-54	14
866	Enhancement of the thermoelectric figure of merit in a quantum dot due to the Coulomb blockade effect. **2010**, 81,	115
865	One-dimensional coordination polymers on surfaces: towards single molecule devices. **2010**, 39, 4220-33	114
864	Comparative study of theoretical methods for non-equilibrium quantum transport. **2010**, 12, 043042	99
863	Coherent Tunneling Transport in Molecular Junctions **2010**, 114, 20431-20435	58
862	Molecular spintronics using noncollinear magnetic molecules. **2010**, 81,	44
861	Transition from tunneling to hopping transport in long, conjugated oligo-imine wires connected to metals. **2010**, 132, 4358-68	200
860	Advances in Macromolecules. **2010**,	6
859	Enhanced hopping conductivity in low band gap donor-acceptor molecular wires Up to 20 nm in length. **2010**, 132, 16191-201	73
858	First-principles study of the variation of electron transport in a single molecular junction with the length of the molecular wire. **2010**, 82,	7
857	Surface morphologies, electronic structures, and Kondo effect of lanthanide(III)-phthalocyanine molecules on Au(111) by using STM, STS and FET properties for next generation devices. **2010**, 39, 4708-23	48
856	Molecular spintronics in mixed-valence magnetic dimers: the double-exchange blockade mechanism. **2010**, 132, 8106-14	43
855	Single-molecule chemistry of metal phthalocyanine on noble metal surfaces. **2010**, 43, 954-62	98
854	Functional and Nanostructured Materials Investigated by XPS and NEXAFS Spectroscopies. **2010**, 165-217	1
853	Plasmonic nanoparticle arrays with nanometer separation for high-performance SERS substrates. **2010**, 10, 2749-54	216
852	Nanomaterials Synthesis and Applications: Molecule-Based Devices. **2010**, 17-45	1
851	A new approach to extract multiple distinct conformers and co-existing distinct electronic properties of a single molecule by point-contact method. **2010**, 12, 2198-208	17
850	Conductivity of Styrene Lines on Si(100)-(2 1):H: Effects of Molecular Orientation and Surface Charge. **2010**, 114, 20016-20021	1

849	Mechanism of ultrathin tunnel barrier failure due to mechanical-stress-induced nanosized hillocks and voids. **2010**, 28, 517-521	18
848	Connecting single conductive polymers to a single functional molecule. **2010**,	
847	Superperiodic conductance in a molecularly wired double-dot system self-assembled in a nanogap electrode. **2010**, 108, 094313	11
846	Thermoelectric Effects of Molecular Quantum Dot Junctions with Strong Electron Phonon Interactions. **2010**, 49, 095205	2
845	Platinum-nanogaps for single-molecule electronics: room-temperature stability. **2011**, 13, 14297-301	17
844	Complete solid state photoisomerization of bis(dipyrazolylstyrylpyridine)iron(II) to change magnetic properties. **2011**, 47, 6846-8	73
843	Effect of doped atom magnetism on electronic transport through C59Xand C69X(X= B and N) molecular junctions. **2011**, 44, 395002	4
842	Charge transport in various dimensions of small networks composed of gold nanoparticles and terthiophene wire-molecules. **2011**, 98, 263114	13
841	Looking Ahead: Challenges and Opportunities in Organometallic Chemistry **2011**, 30, 7-12	22
840	Length and Temperature Dependent Conduction of Ruthenium-Containing Redox-Active Molecular Wires. **2011**, 115, 19955-19961	101
839	Rate-determining factors in the chain polymerization of molecules initiated by local single-molecule excitation. **2011**, 5, 2779-86	32
838	Charge transfer statistics of a molecular quantum dot with strong electron-phonon interaction. **2011**, 83,	52
837	Assembling molecular electronic junctions one molecule at a time. **2011**, 11, 4725-9	28
836	Single Electron Tunneling through a Tailored Arylthio-coronene. **2011**, 115, 9204-9209	9
835	The shear flow processing of controlled DNA tethering and stretching for organic molecular electronics. **2011**, 5, 275-82	9
834	Theoretical studies of electron transport in thiophene dimer: effects of substituent group and heteroatom. **2011**, 115, 4535-46	25
833	Robust Au-Ag-Au bimetallic atom-scale junctions fabricated by self-limited Ag electrodeposition at Au nanogaps. **2011**, 5, 8434-41	6
832	Chemical wiring and soldering toward all-molecule electronic circuitry. **2011**, 133, 8227-33	85

831	Probing Hopping Conduction in Conjugated Molecular Wires Connected to Metal Electrodes. **2011**, 23, 631-645	151
830	Electrons, photons, and force: quantitative single-molecule measurements from physics to biology. **2011**, 5, 693-729	79
829	Tuning-up and driving a redox-active rotor. **2011**, 47, 415-7	26
828	Temperature-manipulated spin transport through a quantum dot transistor. **2011**, 83,	27
827	Quantum Interference in Acyclic Molecules. **2011**, 17-59	2
826	Hopping Transport in Long Conjugated Molecular Wires Connected to Metals. **2011**, 61-91	
825	Electronics with Molecules. **2011**, 383-479	15
824	Charge transport in single molecular junctions at the solid/liquid interface. **2012**, 313, 121-88	19
823	Quantum Correlation Effects in Electron Dynamics in Molecular Wires and Solar Cells. **2011**, 261-315	4
822	Unconventional Kondo effect in redox active single organic macrocyclic transistors. **2011**, 133, 19547-52	10
821	A perspective on slow-relaxing molecular magnets built from rare-earths and nitronyl-nitroxide building blocks (invited). **2011**, 109, 07B115	29
820	Super-fermion representation of quantum kinetic equations for the electron transport problem. **2011**, 134, 044121	50
819	Electrical transport characteristics through molecular layers. **2011**, 21, 18117	43
818	Electrical control over the Fe(II) spin crossover in a single molecule: Theory and experiment. **2011**, 83,	152
817	Interlevel cascade transition in electrically confined quantum wire arrays. **2011**, 5, 7488-93	
816	IV characteristics of an open quantum dot with a Coulomb interaction: Extension of the Landauer formula with exact scattering eigenstates. **2011**, 83,	11
815	Spectroscopic and Computational Studies of the Ligand Redox Non-Innocence in Mono- and Binuclear Ruthenium Vinyl Complexes. **2011**, 30, 1852-1858	57
814	Observation and electric current control of a local spin in a single-molecule magnet. **2011**, 2, 217	327

813	Post-complementary metal-oxide-semiconductor vertical and molecular transistors: A platform for molecular electronics. **2011**, 99, 033108	3
812	Collectively induced quantum-confined Stark effect in monolayers of molecules consisting of polar repeating units. **2011**, 133, 18634-45	31
811	Voltammetry and in situ scanning tunnelling spectroscopy of osmium, iron, and ruthenium complexes of 2,2':6',2''-terpyridine covalently linked to Au(111)-electrodes. **2011**, 13, 14394-403	15
810	High-spin and magnetic anisotropy signatures in three-terminal transport through a single molecule. **2011**, 161, 591-597	16
809	Spin coupling and relaxation inside molecule-metal contacts. **2011**, 2, 490	136
808	Conductance Properties of Switchable Molecules. **2011**, 719-777	2
807	Quantum transport through a stretched spin-1 molecule. **2011**, 93, 47005	26
806	Possibility of transforming the electronic structure of one species of graphene adatoms into that of another by application of gate voltage: First-principles calculations. **2011**, 84,	20
805	Charge delocalization in a cyclometalated bisruthenium complex bridged by a noninnocent 1,2,4,5-tetra(2-pyridyl)benzene ligand. **2011**, 133, 15697-706	122
804	Nanoparticle single-electron transistor with metal-bridged top-gate and nanogap electrodes. **2011**, 99, 073109	22
803	Lifetime analysis of individual-atom contacts and crossover to geometric-shell structures in unstrained silver nanowires. **2011**, 2, 740-5	15
802	Nanofabrication for Molecular Scale Devices. **2011**,	
801	Terpyridines and Nanostructures. **2011**, 399-457	
800	Electrochemistry: Applications in Inorganic Chemistry Based in part on the article Electrochemistry: Applications in Inorganic Chemistry by Robert H. Crabtree which appeared in the Encyclopedia of Inorganic Chemistry, First Edition.. **2011**,	
799	Giant magnetoresistance through a single molecule. **2011**, 6, 185-9	262
798	Study of coupling effect on the performance of a spin-current diode: Nonequilibrium Green function based model. **2011**, 151, 1479-1482	3
797	Effect of the ac field on a single-molecule magnet bridged between conducting leads. **2011**, 323, 3151-3155	3
796	Spin polarized Kondo transport through a quantum dot connected to ferromagnetic leads. **2011**, 44, 168-171	

795	Electron transport through molecular junctions. **2011**, 509, 1-87	139
794	An MCBJ case study: The influence of π-conjugation on the single-molecule conductance at a solid/liquid interface. **2011**, 2, 699-713	130
793	Molecular spintronics. **2011**, 40, 3336-55	897
792	Numerically exact, time-dependent treatment of vibrationally coupled electron transport in single-molecule junctions. **2011**, 135, 244506	61
791	INFLUENCE OF SPIN-FLIP ON THE PERFORMANCE OF THE SPIN-DIODE. **2011**, 25, 2335-2341	1
790	Implementation of Molecular Transistor Electrodes by Electromigration. **2011**, 24, 1087-1093	
789	Molecular orbital concept on spin-flip transport in molecular junctions. **2011**, 130, 775-788	10
788	A theoretical approach to molecular single-electron transistors. **2011**, 130, 839-850	8
787	Multiple-decker phthalocyaninato Tb(III) single-molecule magnets and Y(III) complexes for next generation devices. **2011**, 255, 2124-2148	97
786	A first-principles study of dihydroazulene as a possible optical molecular switch. **2011**, 54, 437-441	5
785	Nanogap electrode fabrication for a nanoscale device by volume-expanding electrochemical synthesis. **2011**, 7, 2210-6	11
784	Self-aligned sub-10-nm nanogap electrode array for large-scale integration. **2011**, 7, 2195-200	7
783	Single-Electron Tunneling through Molecular Quantum Dots in a Metal-Insulator-Semiconductor Structure. **2011**, 21, 2933-2937	18
782	A new approach for molecular electronic junctions with a multilayer graphene electrode. **2011**, 23, 755-60	150
781	Single molecule electronic devices. **2011**, 23, 1583-608	380
780	Terpyridine-functionalized surfaces: redox-active, switchable, and electroactive nanoarchitecturesgland. **2011**, 23, 3484-98	85
779	Synthesis and Optical Properties of Molecular Rods Comprising a Central Core-Substituted Naphthalenediimide Chromophore for Carbon Nanotube Junctions. **2011**, 2011, 478-496	20
778	A core-shell strategy for constructing a single-molecule junction. **2011**, 17, 8414-23	18

777	From molecular wires to potential molecular cables. **2011**, 14, 42-45	1
776	Functionalization of flat Si surfaces with inorganic compounds towards molecular CMOS hybrid devices. **2011**, 255, 1587-1602	49
775	Effect of finite Coulomb interaction on full counting statistics of electronic transport through single-molecule magnet. **2011**, 375, 716-725	17
774	Mesoscopic spin-flip transport through a hybrid system with a single molecular dot system applied with ac magnetic fields. **2011**, 375, 733-737	2
773	Transient electron dynamics in a vibrating quantum dot in the Kondo regime. **2011**, 23, 125302	5
772	Vibrational excitations in molecular layers probed by ballistic electron microscopy. **2011**, 22, 435701	2
771	Fabrication of Nanogap Electrodes by the Molecular Lithography Technique. **2011**, 50, 035204	4
770	Active and non-active large-area metal-molecules-metal junctions. **2012**, 313, 85-119	9
769	Visualizing electron correlation by means of ab initio scanning tunneling spectroscopy images of single molecules. **2011**, 134, 024104	12
768	Fabrication of nanogaps by a progressive electromigration technique using wires of various thicknesses. **2011**, 29, 061802	5
767	Interplay between quantum interference and Kondo effects in nonequilibrium transport through nanoscopic systems. **2011**, 84,	20
766	Integrated logic circuits using single-atom transistors. **2011**, 108, 13969-72	31
765	Self-consistent full counting statistics of inelastic transport. **2011**, 84,	33
764	Conductance and application of organic molecule pairs as nanofuses. **2011**, 83,	10
763	Fluctuation-exchange approximation theory of the nonequilibrium singlet-triplet transition. **2011**, 84,	5
762	Spin-12 Kondo effect in an InAs nanowire quantum dot: Unitary limit, conductance scaling, and Zeeman splitting. **2011**, 84,	93
761	Capacities of Grassmann channels. **2011**, 52, 062202	8
760	Vibronic state assisted resonant transport in molecules strongly anchored at an electrode. **2011**, 83,	7

759	Dynamical symmetry breaking in vibration-assisted transport through nanostructures. **2011**, 84,	10
758	Influence of magnetic anisotropy on the Kondo effect and spin-polarized transport through magnetic molecules, adatoms, and quantum dots. **2011**, 84,	25
757	Effect of dimerization on dynamics of spin-charge separation in Pariser-Parr-Pople model: A time-dependent density matrix renormalization group study. **2011**, 84,	2
756	Nonequilibrium transport in the Anderson model of a biased quantum dot: Scattering Bethe ansatz phenomenology. **2011**, 83,	7
755	Unimolecular electronic devices. **2012**, 313, 39-84	21
754	Plasmons in nanoscale metal junctions: optical rectification and thermometry. **2011**,	2
753	Polysilicon nanogap structure development using size expansion technique. **2011**, 28, 24-30	3
752	Molecular electronic junction transport: some pathways and some ideas. **2012**, 313, 1-38	20
751	Two-channel conduction through polyacenes--extension of the source-sink potential method to multichannel coupling to leads. **2011**, 134, 044119	6
750	EFFECT OF TORSION ANGLE IN 4,4?-BIPHENYLDITHIOL FUNCTIONALIZED MOLECULAR JUNCTION. **2011**, 25, 699-710	1
749	Spectrum and FranckCondon factors of interacting suspended single-wall carbon nanotubes. **2012** , 14, 023045	7
748	Molecule Induced Strong Coupling between Ferromagnetic Electrodes of a Molecular Spintronics Device. **2012**, 736, 32-54	4
747	Charge oscillation and many-body effect in triangular quantum dots. **2012**, 21, 117501	2
746	The self-breaking mechanism of atomic scale Au nanocontacts. **2012**, 23, 405702	9
745	An investigation into the feasibility of myoglobin-based single-electron transistors. **2012**, 23, 395705	10
744	Subnanometer poly-silicon gap structure formation: Comparison study between size expansion and size reduction. **2012**,	
743	Formation of 42 nm polysilicon nanogap structure by using size expansion technique. **2012**,	
742	Electrical conductivity of cationized ferritin decorated gold nanoshells. **2012**, 111, 124311	1

741	Realization of gigahertz-frequency impedance matching circuits for nano-scale devices. **2012**, 101, 053108	15
740	Gating the charge state of single molecules by local electric fields. **2012**, 108, 036801	55
739	Spin-precession-assisted supercurrent in a superconducting quantum point contact coupled to a single-molecule magnet. **2012**, 86,	14
738	Analysis of the Kondo effect in ferromagnetic atomic-sized contacts. **2012**, 86,	8
737	Manipulation of organic polyradicals in a single-molecule transistor. **2012**, 86,	19
736	Electronic properties of individual diarylethene molecules studied using scanning tunneling spectroscopy. **2012**, 111, 083716	9
735	Single-molecule phenyl-acetylene-macrocycle-based optoelectronic switch functioning as a quantum-interference-effect transistor. **2012**, 109, 186801	31
734	Numerical renormalization group calculation of impurity internal energy and specific heat of quantum impurity models. **2012**, 86,	9
733	Zero-bias anomaly in ferromagnetic Ni nanoconstrictions. **2012**, 86,	12
732	Nonequilibrium dynamics across an impurity quantum critical point due to quantum quenches. **2012** , 86,	8
731	Current-induced switching in transport through anisotropic magnetic molecules. **2012**, 85,	39
730	Scanning probe microscopy imaging of metallic nanocontacts. **2012**, 85,	18
729	A Brief Review of the Current Technologies Used for the Fabrication of Metal-Molecule-Metal Junction Electrodes. **2012**, 626, 867-877	2
728	Non-equilibrium conductance through a benzene molecule in the Kondo regime. **2012**, 24, 365301	17
727	Electrochemical and Photophysical Study in Solution and on Ruthenium(II) Polypyridyl Complexes Containing Thiophenylethynylphenanthrolines Self-assembled on Gold Surfaces. **2012**, 41, 1417-1419	2
726	Placement of nanospace on an electrode for biosensing. **2012**, 28, 1037-48	6
725	Molecular Kondo chain. **2012**, 12, 3174-9	83
724	Electron–phonon interactions in atomic and molecular devices. **2012**, 87, 189-208	20

723	Directly addressable sub-3 nm gold nanogaps fabricated by Nanoskiving using self-assembled monolayers as templates. **2012**, 6, 5566-73	31
722	Memristive properties of single-molecule magnets. **2012**, 86,	17
721	Phonon-assisted transport through quantum dots with normal and superconducting leads. **2012**, 86,	20
720	Synthesis of Vasorelaxaing 1,4-Disubstituted 1,2,3-Triazoles Catalyzed by a 4?-Phenyl-2,2?:6?,2??-Terpyridine Copper(II) Complex Immobilized on Activated Multiwalled Carbon Nanotubes. **2012**, 1, 377-388	30
719	Building High-Throughput Molecular Junctions Using Indented Graphene Point Contacts. **2012**, 124, 12394-12398	28
718	Building high-throughput molecular junctions using indented graphene point contacts. **2012**, 51, 12228-32	115
717	Single-Molecule Electronics. **2012**,	1
716	Quantification of the surface diffusion of tripodal binding motifs on graphene using scanning electrochemical microscopy. **2012**, 134, 6224-36	55
715	High-order tunneling processes in single-porphyrin transistors. **2012**, 48, 4420-2	5
714	Ruthenium(II) bis(terpyridine) electron transfer complexes with alkynyl-ferrocenyl bridges: synthesis, structures, and electrochemical and spectroscopic studies. **2012**, 41, 11000-8	19
713	Multilevel conductance switching for a monolayer of redox-active metal complexes through various metallic contacts. **2012**, 22, 1868-1875	13
712	Stability and chaos of a driven nanoelectromechanical Josephson junction. **2012**, 85,	1
711	Reversible copper(II)/(I) electrochemical potential switching driven by visible light-induced coordinated ring rotation. **2012**, 134, 10543-53	45
710	Controlling the Performance of a Three-Terminal Molecular Transistor: Conformational versus Conventional Gating. **2012**, 116, 4840-4847	6
709	Symmetry-driven novel Kondo effect in a molecule. **2012**, 109, 086602	117
708	Single molecular conductance of tolanes: experimental and theoretical study on the junction evolution dependent on the anchoring group. **2012**, 134, 2292-304	294
707	Direct observation of magnetic anisotropy in an individual Fe4 single-molecule magnet. **2012**, 109, 147203	72
706	Nonmechanical Conductance Switching in a Molecular Tunnel Junction. **2012**, 3, 498-502	16

705	Bistability signatures in nonequilibrium charge transport through molecular quantum dots. **2012**, 86,	62
704	Advances on structuring, integration and magnetic characterization of molecular nanomagnets on surfaces and devices. **2012**, 41, 258-302	120
703	Nanowire-based surface-enhanced Raman spectroscopy (SERS) for chemical warfare simulants. **2012**,	2
702	Thermoelectric transport with electron-phonon coupling and electron-electron interaction in molecular junctions. **2012**, 85,	57
701	Charge transport through unpaired spin-containing molecules on surfaces. **2012**, 22, 13883	14
700	From Crystals to Molecules. **2012**, 781-822	
699	Imaging of Single Biomolecules by Scanning Tunneling Microscopy. **2012**, 85-142	
698	Unimolecular and Supramolecular Electronics II. **2012**,	4
697	Correlations between the catalytic activity of heteropoly acids and the special features of their tunneling spectra. **2012**, 53, 610-615	3
696	Single molecule electronics and devices. **2012**, 12, 7259-98	105
695	Vibrational spectroscopy as a probe of molecule-based devices. **2012**, 41, 1929-46	31
694	X-ray spectroscopy characterization of self-assembled monolayers of nitrile-substituted oligo(phenylene ethynylene)s with variable chain length. **2012**, 3, 12-24	15
693	Fabrication and Developments of Nano-gap Electrode using Self-assembled Molecular Lithography. **2012**, 55, 333-340	
692	Gate-controlled spin transport in a spin-diode structure. **2012**, 111, 093717	1
691	Observation of quantum interference in molecular charge transport. **2012**, 7, 305-9	404
690	Photoinduced conductance switching in a dye-doped gold nanoparticle transistor. **2012**, 101, 023103	11
689	Conductance-driven change of the Kondo effect in a single cobalt atom. **2012**, 108, 266803	44
688	Di([5]trovacenyl) Sulfides TVCSnTVC (n = 1–4) and TVCSCH2STVC: a Study in Intramolecular Communication. **2012**, 2012, 3929-3936	8

687	Tunable doping of a metal with molecular spins. **2012**, 7, 232-6	24
686	Bioinspired Five-Coordinate Iron(III) Complexes for Stabilization of Phenoxyl Radicals. **2012**, 124, 3232-3236	12
685	The Rate of Charge Tunneling through Self-Assembled Monolayers Is Insensitive to Many Functional Group Substitutions. **2012**, 124, 4736-4739	12
684	Bioinspired five-coordinate iron(III) complexes for stabilization of phenoxyl radicals. **2012**, 51, 3178-82	45
683	The rate of charge tunneling through self-assembled monolayers is insensitive to many functional group substitutions. **2012**, 51, 4658-61	95
682	Molecular spintronics based on single-molecule magnets composed of multiple-decker phthalocyaninato terbium(III) complex. **2012**, 7, 1154-69	72
681	Coulomb blockade behaviors in individual Au nanoparticles as observed through noncontact atomic force spectroscopy at room temperature. **2012**, 23, 185704	4
680	An introduction to molecular spintronics. **2012**, 55, 867-882	26
679	[Fe(4?-PhStpy)2][PF6]2 (4?-PhStpy = 4?-phenylthio-2,2?:6?,2?-terpyridine): A centrosymmetric embrace. **2012**, 20, 180-183	2
678	Electronic transport properties in benzene-based heterostructure: Effects of anchoring groups. **2012**, 376, 1692-1697	18
677	Synthesis of amphiphilic azo-anion-radical complexes of chromium(III) and the development of ultrathin redox-active surfaces by the Langmuir-Schaefer technique. **2012**, 18, 1761-71	14
676	Stimuli-responsive pyrimidine ring rotation in copper complexes for switching their physical properties. **2013**, 15, 10549-65	40
675	Mechanically controllable break junctions for molecular electronics. **2013**, 25, 4845-67	147
674	A molecular platinum cluster junction: a single-molecule switch. **2013**, 135, 2052-5	22
673	Nanogap structures: combining enhanced Raman spectroscopy and electronic transport. **2013**, 15, 5262-75	60
672	Analytical study of the ballistic transport of ladder-like graphene nanoribbons within the tight-binding approach. **2013**, 59, 106-114	10
671	Structural modification on copper(I)-pyridylpyrimidine complexes for modulation of rotational dynamics, redox properties, and phototriggered isomerization. **2013**, 52, 8962-70	5
670	Switching of a coupled spin pair in a single-molecule junction. **2013**, 8, 575-9	89

669	Molecular scale electronic devices using single molecules and molecular monolayers. **2013**, 13, 1157-1171	17
668	Hund and pair-hopping signatures in transport properties of degenerate nanoscale devices. **2013**, 86, 1	1
667	A current-driven single-atom memory. **2013**, 8, 645-8	97
666	Tunable zero-field Kondo splitting in a quantum dot. **2013**, 88,	3
665	Spin-flip induction of Fano resonance upon electron tunneling through atomic-scale spin structures. **2013**, 116, 854-859	1
664	Conductance steps in electromigrated Bi nanoconstrictions. **2013**, 15, 5132-9	6
663	Non-Fermi-liquid behavior in transport through Co-doped Au chains. **2013**, 110, 196402	16
662	Electrochromic and Photochromic Properties. **2013**, 919-967	3
661	Molecular properties of two related families of substituted [Ru(2,2?:6?,2?-Terpyridine)2]2+ for application as sensitizers in dye-sensitized solar cells. **2013**, 97, 455-461	3
660	Conformation-dependent conductance through a molecular break junction. **2013**, 19, 4173-80	5
659	Imaging and Manipulating Molecular Orbitals. **2013**,	1
658	Twists and turns: Studies of the complexes and properties of bimetallic complexes featuring phenylene ethynylene and related bridging ligands. **2013**, 257, 1507-1532	135
657	Forty years of molecular electronics: Non-equilibrium heat and charge transport at the nanoscale. **2013**, 250, 2249-2266	69
656	Quantitatively accurate calculations of conductance and thermopower of molecular junctions. **2013** , 250, 2394-2402	17
655	Photoisomerization-induced manipulation of single-electron tunneling for novel Si-based optical memory. **2013**, 5, 11371-6	12
654	Batch fabrication of gold-gold nanogaps by E-beam lithography and electrochemical deposition. **2013**, 24, 235302	10
653	Transport Properties of Molecular Junctions. **2013**,	21
652	First-principles investigation of quantum transport through an endohedral N@C60 in the Coulomb blockade regime. **2013**, 25, 495302	1

651	Transient dynamics and steady state behavior of the Anderson-Holstein model with a superconducting lead. **2013**, 54, 15-23	11
650	Effects of multiple reflection in the process of inelastic electron transport through an anisotropic magnetic atom. **2013**, 98, 403-409	5
649	Magnetic flux tuning of Fano-Kondo interplay in a parallel double quantum dot system. **2013**, 87,	5
648	Phonon-assisted thermoelectric effects in a two-level molecule. **2013**, 413, 86-91	6
647	SU(3) orbital Kondo effect with ultracold atoms. **2013**, 111, 135301	59
646	Metal complexes in molecular junctions. **2013**, 42, 15859-63	55
645	An Electrochemical and Raman Spectroscopy Study of the Surface Behaviour of Mononuclear Ruthenium and Osmium Polypyridyl Complexes Based on Pyridyl- and Thiophene-Based Linkers. **2013**, 2013, 4291-4299	4
644	Correlated Electron Materials and Field Effect Transistors for Logic: A Review. **2013**, 38, 286-317	83
643	Electronic and interfacial behavior of gemini metallosurfactants with copper(II)/pseudohalide cascade cores. **2013**, 42, 15296-306	10
642	Electrical characteristics of C 36 molecular conductor and its B- and N-Doped isomers. **2013**, 9, 63-69	2
641	Elastic and inelastic electron transport in metal-molecule(s)-metal junctions. **2013**, 47, 167-187	10
640	Single molecule bridging between metal electrodes. **2013**, 15, 2253-67	89
639	Tripodal MIII Complexes on Au(111) Surfaces: Towards Molecular "Lunar Modules". **2013**, 2013, 70-79	11
638	Many-body localized molecular orbital approach to molecular transport. **2013**, 88,	17
637	Heat generation by electric current in quantum dot system responded by ac magnetic fields. **2013**, 48, 106-110	6
636	Controlling formation of single-molecule junctions by electrochemical reduction of diazonium terminal groups. **2013**, 135, 3319-22	60
635	Molecular electronics: Reflections on charge transport. **2013**, 8, 230-1	11
634	Measurement of electron transfer through cytochrome P450 protein on nanopillars and the effect of bound substrates. **2013**, 135, 3834-40	12

633	Phenyl Attachment to Si(001) via STM Manipulation of Acetophenone. **2013**, 117, 5736-5741	15
632	Time-dependent electron transport through a strongly correlated quantum dot: multiple-probe open-boundary conditions approach. **2013**, 25, 105501	5
631	Magnetic cluster excitations. **2013**, 85, 367-420	110
630	Parallel carbon nanotube quantum dots and their interactions. **2013**, 87,	6
629	Thermoelectric effects in a quantum dot coupled to ferromagnetic leads and subject to microwave fields. **2013**, 113, 143709	10
628	Toward functional molecular devices based on graphene-molecule junctions. **2013**, 52, 3906-10	69
627	Organic Circuits and Organic Single-Molecule Transistors. **2013**, 171-276	
626	Giant molecular magnetocapacitance. **2013**, 110, 217205	14
625	Tailoring palladium nanocontacts by electromigration. **2013**, 102, 193103	11
624	Single-molecule junctions beyond electronic transport. **2013**, 8, 399-410	617
623	Transport characterization of Kondo-correlated single-molecule devices. **2013**, 87,	17
622	Analytical model for self-heating in nanowire geometries. **2013**, 113, 234306	12
621	Unimolecular amplifier: principles of a three-terminal device with power gain. **2013**, 5, 6975-84	10
620	Persistent current driven by the Josephson effect in a triple-quantum-dot ring with superconducting leads. **2013**, 87,	9
619	Design and simulation of molecular nonvolatile single-electron resistive switches. **2013**, 113, 044504	1
618	Solvated-ion-pairing-sensitive molecular bistability based on copper(I)-coordinated pyrimidine ring rotation. **2013**, 52, 369-80	18
617	Chemical noise produced by equilibrium adsorption/desorption of surface pyridine at Au-Ag-Au bimetallic atom-scale junctions studied by fluctuation spectroscopy. **2013**, 135, 4522-8	10
616	Multilayer multiconfiguration time-dependent Hartree study of vibrationally coupled electron transport using the scattering-state representation. **2013**, 117, 7431-41	32

615	Static Conductance of Nitrile-Substituted Oligophenylene and Oligo(phenylene ethynylene) Self-Assembled Monolayers Studied by the Mercury-Drop Method. **2013**, 117, 25556-25561	21
614	Gated-Controlled Rectification of a Self-Assembled Monolayer-Based Transistor. **2013**, 117, 8468-8474	35
613	Effects of the Bridging Bond on Electronic Transport in a D-B-A Device. **2013**, 30, 087201	
612	Designer thermal switches: the effect of the contact material on instantaneous thermoelectric transport through a strongly interacting quantum dot. **2013**, 25, 365301	0
611	Toward a new world of molecular devices: Making metallic contacts to molecules. **2013**, 31, 050816	19
610	Dispersive Electronic States of the π-Orbitals Stacking in Single Molecular Lines on the Si(001)-(2×1)-H Surface. **2013**, 4, 1199-204	2
609	Terminal redox-site effect on the long-range electron conduction of Fe(tpy)2 oligomer wires on a gold electrode. **2013**, 19, 5088-96	32
608	Spin-current rectification in the presence of spin-flip in a quantum dot using temperature bias. **2013**, 250, 128-133	2
607	Imaging single electron spin in a molecule trapped within a nanocavity of tunable dimension. **2013**, 138, 074703	7
606	Numerically exact, time-dependent study of correlated electron transport in model molecular junctions. **2013**, 138, 134704	55
605	Science and Engineering of Nanomaterials. **2013**, 1-36	5
604	Photoresponses in Gold Nanoparticle Single-Electron Transistors with Molecular Floating Gates. **2013**, 52, 110102	12
603	Electronic Structure Calculations in Molecules. **2013**, 183-230	
602	Nanogap Electrodes Developed Using Focused Ion Beam Technology. **2013**, 1-14	
601	Numerically exact long-time magnetization dynamics at the nonequilibrium Kondo crossover of the Anderson impurity model. **2013**, 87,	94
600	Conductance scaling in Kondo-correlated quantum dots: Role of level asymmetry and charging energy. **2013**, 87,	24
599	Padé-approximant approach for obtaining finite-temperature spectral functions of quantum impurity models using the numerical renormalization group technique. **2013**, 87,	22
598	Rotation and anisotropic molecular orbital effect in a single H2TPP molecule transistor. **2013**, 111, 246806	4

597	Effects of electron-phonon coupling in the Kondo regime of a two-orbital molecule. **2013**, 87,	3
596	Manipulating transport through a single-molecule junction. **2013**, 139, 214709	11
595	Proposed alteration of images of molecular orbitals obtained using a scanning tunneling microscope as a probe of electron correlation. **2013**, 110, 018305	9
594	Nonequilibrium transport through magnetic vibrating molecules. **2013**, 87,	20
593	Long transient dynamics in the Anderson-Holstein model out of equilibrium. **2013**, 87,	34
592	Full counting statistics of a single-molecule quantum dot. **2013**, 88,	23
591	THE INFLUENCE OF THE COUPLING STRENGTH ON THE ELECTRON TRANSPORT THROUGH THE BENZENE-1,4-DITHIOLATE MOLECULAR JUNCTION. **2013**, 27, 1350121	4
590	A bipodal dicyano anchor unit for single-molecule spintronic devices. **2013**, 14, 2470-5	4
589	Toward Functional Molecular Devices Based on Graphene–Molecule Junctions. **2013**, 125, 3998-4002	14
588	Efficient Electronic Communication in 4,9-Bis(ferrocenylethynyl)dimethyldihydropyrene. **2013**, 42, 361-362	3
587	Triarylamine-conjugated Bis(terpyridine)–Iron(II) Complex Wires: Rapid and Long-range Electron-transport Ability. **2013**, 42, 553-555	10
586	Nonlinear Susceptibility Measurement for Quadrupolar Response in a Dilute Non-Kramers Doublet System Pr0.05La0.95Pb3. **2013**, 82, 073701	10
585	High-mobility field effect transistors based on supramolecular charge transfer nanofibres. **2013**, 25, 559-64	65
584	Fabricating nanogaps by nanoskiving. **2013**, e50406	3
583	Design and Synthesis of Organic Molecules for Molecular Electronics. **2013**, 46-75	
582	An Exciting Aspect of Nanotechnology: Unimolecular Electronics. **2013**, 4, 05005	
581	Electrochemistry of the self-assembled monolayers of dyads consisting of tripod-shaped trithiol and bithiophene on gold. **2014**, 19, 15298-313	8
580	Surface Growth and Diffusion Energetics of Ag Monolayers on Cu (001). **2014**, 4, 108-117	1

579	Atomistic study on dithiolated oligo-phenylenevinylene gated device. **2014**, 116, 204504	6
578	Bipolaronic blockade effect in quantum dots with negative charging energy. **2014**, 105, 47006	3
577	Kondo conductance across the smallest spin 1/2 radical molecule. **2014**, 111, 69-74	29
576	Theoretical study on conductance switching of single-molecule devices. **2014**,	
575	Unraveling the Influence of Lanthanide Ions on Intra- and Inter-Molecular Electronic Processes in Fe10Ln10 Nano-Toruses. **2014**, 24, 6280-6290	35
574	The role of moleculeElectrode contact in single-molecule electronics. **2014**, 29, 054007	32
573	Theory of charge transport in molecular junctions: from Coulomb blockade to coherent tunneling. **2014**, 141, 064111	3
572	Interplay between Kondo and Majorana Interactions in Quantum Dots. **2014**, 4,	38
571	Carrier transport properties of nanocrystalline Er3N@C80. **2014**, 116, 034301	3
570	Bioengineered tunable memristor based on protein nanocage. **2014**, 10, 277-83	59
569	Simultaneous description of conductance and thermopower in single-molecule junctions from many-body ab initio calculations. **2014**, 90,	5
568	Decoherence of an entangled state of a strongly correlated double quantum dot structure through tunneling processes. **2014**, 90,	1
567	Transitions between Electron Transporting Mechanisms in Molecular Junctions and Transistors. **2014**, 61, 101-114	8
566	Understanding the Kondo resonance in the d-CoPc/Au(111) adsorption system. **2014**, 141, 084713	30
565	Experiments on Molecular Magnets for Molecular Spintronics. **2014**, 331-381	7
564	Electron-vibration interaction in the presence of a switchable Kondo resonance realized in a molecular junction. **2014**, 113, 236603	37
563	Orthogonally modulated molecular transport junctions for resettable electronic logic gates. **2014**, 5, 3023	179
562	Molecular diodes enabled by quantum interference. **2014**, 174, 79-89	26

561	A quasi-classical mapping approach to vibrationally coupled electron transport in molecular junctions. **2014**, 140, 104110	16
560	Strongly nonlinear thermovoltage and heat dissipation in interacting quantum dots. **2014**, 90,	48
559	Tuning the local temperature during feedback controlled electromigration in gold nanowires. **2014**, 104, 223113	11
558	Molecular Transistors. **2014**, 194-226	1
557	Nano Electronics: A New Era of Devices. **2014**, 222, 99-116	5
556	Electronic Transport Properties of Doped C28 Fullerene. **2014**, 2014, 1-7	3
555	A non-equilibrium equation-of-motion approach to quantum transport utilizing projection operators. **2014**, 26, 455301	6
554	Phonon-assisted tunneling and two-channel Kondo effect in a vibrating molecular dot coupled to Luttinger liquid leads. **2014**, 178, 50-53	4
553	Flexible molecular-scale electronic devices composed of diarylethene photoswitching molecules. **2014**, 26, 3968-73	61
552	Green's functions from real-time bold-line Monte Carlo calculations: spectral properties of the nonequilibrium Anderson impurity model. **2014**, 112, 146802	64
551	Divinylphenylene- and Ethynylvinylphenylene-Bridged Mono-, Di-, and Triruthenium Complexes for Covalent Binding to Gold Electrodes. **2014**, 33, 4672-4686	41
550	Effects of Electrodes and Nitrogen-Atom Locations on Electron Transport in C59N Molecular Junctions: A First-Principles Study. **2014**, 118, 617-626	8
549	Tunable charge transport in single-molecule junctions via electrolytic gating. **2014**, 14, 1400-4	84
548	Auxiliary master equation approach to nonequilibrium correlated impurities. **2014**, 89,	46
547	Electronic transport properties in graphene oxide frameworks. **2014**, 89,	9
546	Effects of electronic correlations and magnetic field on a molecular ring out of equilibrium. **2014**, 89,	3
545	Redox-Induced Asymmetric Electrical Characteristics of Ferrocene-Alkanethiolate Molecular Devices on Rigid and Flexible Substrates. **2014**, 24, 2472-2480	59
544	Design and synthesis of perpendicularly connected metal porphyrin-imide dyads for two-terminal wired single molecular diodes. **2014**, 20, 7655-64	14

543	Double-decker phthalocyanine complex: Scanning tunneling microscopy study of film formation and spin properties. **2014**, 89, 127-160	33
542	Franck-Condon blockade in a single-molecule transistor. **2014**, 14, 3191-6	82
541	DNA-based nanobiostructured devices: The role of quasiperiodicity and correlation effects. **2014**, 535, 139-209	71
540	Electronic transport via proteins. **2014**, 26, 7142-61	146
539	Fabrication of hybrid molecular devices using multi-layer graphene break junctions. **2014**, 26, 474205	13
538	Physico-Chemical Characteristics of Gold Nanoparticles. **2014**, 66, 81-152	19
537	Interplay between the Kondo effect and the Ruderman-Kittel-Kasuya-Yosida interaction. **2014**, 5, 5417	42
536	Hopping Transport and Rectifying Behavior in Long Donor–Acceptor Molecular Wires. **2014**, 118, 26485-26497	31
535	Coordinating Tectons: Bimetallic Complexes from Bipyridyl Terminated Group 8 Alkynyl Complexes. **2014**, 33, 4911-4922	16
534	The emergence of complex behaviours in molecular magnetic materials. **2014**, 16, 18076-82	8
533	Avoiding problem reactions at the ferrocenyl-alkyne motif: a convenient synthesis of model, redox-active complexes for molecular electronics. **2014**, 43, 15287-90	10
532	Inelastic tunnel transport of electrons through an anisotropic magnetic structure in an external magnetic field. **2014**, 119, 124-137	5
531	Control of single-molecule junction conductance of porphyrins via a transition-metal center. **2014**, 14, 5365-70	70
530	Single-molecule electronics: from chemical design to functional devices. **2014**, 43, 7378-411	343
529	Cationic copper(II)-containing surfactants: molecular structures, film morphology, and influence on the alignment of nematic mesogens. **2014**, 53, 5647-55	9
528	From the Coulomb blockade regime to the Non-Coulomb blockade regime. **2014**, 454, 82-85	1
527	Probing the electronic properties of individual MnPc molecules coupled to topological states. **2014**, 14, 5092-6	30
526	Predictive DFT-based approaches to charge and spin transport in single-molecule junctions and two-dimensional materials: successes and challenges. **2014**, 47, 3250-7	33

525	Spins of adsorbed molecules investigated by the detection of Kondo resonance. **2014**, 630, 343-355	14
524	Multilevel Operation of Resonant Tunneling with Binary Molecules in a Metal–Insulator–Semiconductor Configuration. **2014**, 118, 6467-6472	6
523	Nanoscale Spin Seebeck Rectifier: Controlling Thermal Spin Transport across Insulating Magnetic Junctions with Localized Spin. **2014**, 89,	29
522	Conductivity of carbon-based molecular junctions from ab-initio methods. **2014**, 9, 748-759	4
521	Spin-dependent thermoelectric effects in transport through a nanoscopic junction involving a spin impurity. **2014**, 89,	18
520	High-efficiency spin filtering in salophen-based molecular junctions modulated with different transition metal atoms. **2014**, 378, 3126-3130	11
519	Breakdown of interference rules in azulene, a nonalternant hydrocarbon. **2014**, 14, 2941-5	99
518	Gate Control of the Conduction Mechanism Transition from Tunneling to Thermally Activated Hopping. **2014**, 5, 1831-6	16
517	XTRANS: An electron transport package for current distribution and magnetic field in helical nanostructures. **2014**, 83, 426-433	7
516	Inelastic electron tunneling spectroscopy of molecular transport junctions. **2014**, 64, 1539-1544	3
515	Interweaving spins with their environment: novel inorganic nanohybrids with controllable magnetic properties. **2014**, 43, 4220-32	25
514	Effect of metal complexation on the conductance of single-molecular wires measured at room temperature. **2014**, 136, 8314-22	38
513	Integration of molecular functions into Si device for nanoscale molecular devices. **2014**, 554, 2-7	6
512	In situ electrical characterization of palladium-based single electron transistors made by electromigration technique. **2014**, 4, 117126	6
511	Molecularly bridged gold nanoparticle array for sensing applications. **2014**, 30, 89-96	17
510	Insight from Molecular-scale Electron Transfer to Small-scale Electronics. **2014**, 43, 629-630	2
509	Resonant transport and electrostatic effects in single-molecule electrical junctions. **2015**, 91,	24
508	Master equation based steady-state cluster perturbation theory. **2015**, 92,	5

507	Probing hybridization of a single energy level coupled to superconducting leads. **2015**, 92,	8
506	Coulomb Blockade in a Two-Dimensional Conductive Polymer Monolayer. **2015**, 115, 196801	12
505	Auxiliary master equation approach within matrix product states: Spectral properties of the nonequilibrium Anderson impurity model. **2015**, 92,	39
504	Phonon-Assisted Spin Current in Single Molecular Magnet Junctions. **2015**, 32, 117201	2
503	Ground state energy, binding energy, and the impurity-specific heat of the Anderson–Holstein model. **2015**, 93, 1024-1029	1
502	References. 572-624	
501	Soft Matter Assembly for Atomically Precise Fabrication of Solid Oxide. **2015**, 217-232	
500	Reversible Switching Phenomenon in Diarylethene Molecular Devices with Reduced Graphene Oxide Electrodes on Flexible Substrates. **2015**, 25, 5918-5923	34
499	Charge Transport Though Single Molecule Bridging Between Metal Electrodes. **2015**, 36, 129-134	
498	Building chessboard-like supramolecular structures on Au(111) surfaces. **2015**, 26, 385601	7
497	Nanogap Electrodes towards Solid State Single-Molecule Transistors. **2015**, 11, 6115-41	39
496	Nanogaps and biomolecules. 11-33	
495	. **2015**,	78
494	Vibration-mediated Kondo transport in molecular junctions: conductance evolution during mechanical stretching. **2015**, 6, 2417-22	4
493	Quantum transport through a multilevel magnetic structure with multiple inelastic scattering in a magnetic field taken into account. **2015**, 41, 98-105	
492	The effects of local exchange anisotropy in a tetranuclear molecular complex with D4h symmetry. **2015**, 41, 186-192	
491	In Situ Transmission Electron Microscopy for Electronics. **2015**,	1
490	. **2015**,	7

489	Utilizing Nearest-Neighbor Interactions To Alter Charge Transport Mechanisms in Molecular Assemblies of Porphyrins on Surfaces. **2015**, 119, 13569-13579	14
488	Kondo effect in binuclear metal-organic complexes with weakly interacting spins. **2015**, 91,	13
487	Carrier trapping study on a Ge nanocrystal by two-pass lift mode electrostatic force microscopy. **2015**, 2, 035001	1
486	Novel spectral features of nanoelectromechanical systems. **2014**, 4, 4035	2
485	Metallosupramolecular approach toward multifunctional magnetic devices for molecular spintronics. **2015**, 303, 110-138	56
484	Periodic Charging of Individual Molecules Coupled to the Motion of an Atomic Force Microscopy Tip. **2015**, 15, 4406-11	31
483	Electrical transport properties of an isolated CdS microrope composed of twisted nanowires. **2015**, 10, 21	6
482	Single-molecule diodes: The environment does the trick. **2015**, 10, 486-7	
481	Photon-assisted tunneling through single molecules induced by terahertz radiation enhanced in the sub-nm gap electrodes. **2015**,	
480	Terahertz Field Enhancement and Photon-Assisted Tunneling in Single-Molecule Transistors. **2015**, 115, 138302	40
479	Materials Meets Concepts in Molecule-Based Electronics. **2015**, 25, 1933-1954	44
478	Single-fluxon controlled resistance switching in centimeter-long superconducting gallium-indium eutectic nanowires. **2015**, 15, 153-8	17
477	Single-Molecule Resonant Tunneling Diode. **2015**, 119, 5697-5702	35
476	Electrical conduction mechanism of an individual polypyrrole nanowire at low temperatures. **2015**, 26, 045703	4
475	Hybrid quantum dot–superconducting systems: Josephson current and Kondo effect in the narrow-band limit. **2015**, 91,	5
474	Quantum phase transition and Coulomb blockade effect in triangular quantum dots with interdot capacitive and tunnel couplings. **2015**, 24, 027501	1
473	Molecular Nanomagnets and Related Phenomena. **2015**,	66
472	Frontiers of Graphene and Carbon Nanotubes. **2015**,	20

471	Towards single molecule switches. **2015**, 44, 2998-3022	237
470	Atomistic study of three-leg molecular devices. **2015**, 24, 37-42	8
469	Electric-Field Control of Interfering Transport Pathways in a Single-Molecule Anthraquinone Transistor. **2015**, 15, 5569-73	50
468	Nonlinear Heat Conduction in Coulomb-blockaded Quantum Dots. **2015**, 2, 483-490	11
467	Experimental and Theoretical Analysis of Nanotransport in Oligophenylene Dithiol Junctions as a Function of Molecular Length and Contact Work Function. **2015**, 9, 8022-36	119
466	Coherent light-driven electron transport through polycyclic aromatic hydrocarbon: laser frequency, field intensity, and polarization angle dependence. **2015**, 17, 20617-29	6
465	Negative differential conductance in molecular junctions: an overview of experiment and theory. **2015**, 27, 263202	47
464	Revealing the atomic site-dependent g factor within a single magnetic molecule via the extended Kondo effect. **2015**, 114, 126601	24
463	Rectifying Electron-Transport Properties through Stacks of Aromatic Molecules Inserted into a Self-Assembled Cage. **2015**, 137, 5939-47	100
462	Solvent-induced variable conformation of bis(terpyridine) derivatives during supramolecular self-assembly at liquid/HOPG interfaces. **2015**, 17, 12350-5	17
461	Quantum dot made in metal oxide silicon-nanowire field effect transistor working at room temperature. **2015**, 15, 2958-64	24
460	Electronic transport in benzodifuran single-molecule transistors. **2015**, 7, 7665-73	23
459	Temperature-dependent and bistable current-voltage measurements in zinc porphyrin molecular junctions. **2015**, 7, 10085-90	4
458	Unimolecular electronics. **2015**, 115, 5056-115	270
457	Conjugated bis(terpyridine)metal complex molecular wires. **2015**, 44, 7698-714	112
456	Bis(phthalocyaninato) Lanthanide(III) Complexes From Molecular Magnetism to Spintronic Devices. **2015**, 223-292	7
455	Towards a full ab initio theory of strong electronic correlations in nanoscale devices. **2015**, 27, 245606	31
454	Scanning Probe Microscopy for Thermal Transport Measurements. **2015**, 19, 279-302	12

453	Computational Design of Intrinsic Molecular Rectifiers Based on Asymmetric Functionalization of N-Phenylbenzamide. **2015**, 11, 5888-96		29
452	Local density of states on a vibrational quantum dot out of equilibrium. **2015**, 91,		5
451	Effects of electron-phonon interaction on thermal and electrical transport through molecular nano-conductors. **2015**, 5, 053204		24
450	Electric field induced effects in Y3N@[C80]6−anionic solid. **2015**, 117, 154308		1
449	Two-channel Kondo effect and renormalization flow with macroscopic quantum charge states. *Nature*, **2015**, 526, 233-6	50.4	93
448	Toward Multiple Conductance Pathways with Heterocycle-Based Oligo(phenyleneethynylene) Derivatives. **2015**, 137, 13818-26		48
447	Internal Electron Tunneling Enabled Ultrasensitive Position/Force Peapod Sensors. **2015**, 15, 7281-7		6
446	Photon and phonon-assisted shot noise in a molecular quantum-dot-ferromagnetic system in the Coulomb blockade regime. **2015**, 88, 1		5
445	Probing charge transfer dynamics in self-assembled monolayers by core hole clock approach. **2015**, 200, 160-173		20
444	Localization-Delocalization in Bridged Mixed-Valence Metal Clusters: Vibronic PKS Model Revisited. **2015**, 119, 9844-56		6
443	A new approach for high-yield metal-molecule-metal junctions by direct metal transfer method. **2015**, 26, 025601		16
442	Single-molecule transistors. **2015**, 44, 902-19		214
441	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. **2015**, 113, 184-215		2068
440	Tuning of Charge Transport Properties of Stacks of Aromatic Molecules. **2016**, 37, 342-347		1
439	Fabrication of a Horizontal and a Vertical Large Surface Area Nanogap Electrochemical Sensor. **2016**, 16,		5
438	HEOM-QUICK: a program for accurate, efficient, and universal characterization of strongly correlated quantum impurity systems. **2016**, 6, 608-638		63
437	Photoresponsive Molecular Memory Films Composed of Sequentially Assembled Heterolayers Containing Ruthenium Complexes. **2016**, 22, 1658-67		31
436	Lifting the Franck-Condon blockade in driven quantum dots. **2016**, 94,		4

435	Quantum dissipative effects on non-equilibrium transport through a single-molecular transistor: The Anderson-Holstein-Caldeira-Leggett model. **2016**, 6, 18511	8
434	Observation of charge transport through CdSe/ZnS quantum dots in a single-electron transistor structure. **2016**, 120, 164306	3
433	Single-ion adsorption and switching in carbon nanotubes. **2016**, 7, 10475	20
432	Gate engineered performance of single molecular transistor. **2016**, 119, 204302	4
431	Electrostatic control over temperature-dependent tunnelling across a single-molecule junction. **2016**, 7, 11595	28
430	Anisotropy induced Kondo splitting in a mechanically stretched molecular junction: A first-principles based study. **2016**, 144, 034101	22
429	Non-equilibrium tunneling through Au□20□Au molecular bridge using density functional theory□non-equilibrium Green function approach. **2016**, 31, 2025-2034	22
428	Predicting single-molecule conductance through machine learning. **2016**, 120, 134902	1
427	Theory of molecular conductance using a modular approach. **2016**, 145, 234702	11
426	Aromaticity Influence on Electron Transport of Molecular Single Electron Transistor: DFT Investigation. **2016**,	
425	Molecular Electronics: A Brief Overview of the Status of the Field. **2016**, 1-23	2
424	Evidence for a hopping mechanism in metal|single molecule|metal junctions involving conjugated metal-terpyridyl complexes; potential-dependent conductances of complexes [M(pyterpy)] (M = Co and Fe; pyterpy = 4'-(pyridin-4-yl)-2,2':6',2''-terpyridine) in ionic liquid. **2016**, 193, 113-131	20
423	Solvent-dependent conductance decay constants in single cluster junctions. **2016**, 7, 2701-2705	24
422	Large Magnetoresistance at Room Temperature in Organic Molecular Tunnel Junctions with Nonmagnetic Electrodes. **2016**, 10, 8571-7	14
421	Correlation Effects in Scanning Tunneling Microscopy Images of Molecules Revealed by Quantum Monte Carlo. **2016**, 12, 5339-5349	5
420	Transport in fullerene device coupled to Cu, Ag and Au electrodes. **2016**, 114, 3255-3264	12
419	Experimental and Computational Studies of the Single-Molecule Conductance of Ru(II) and Pt(II) trans-Bis(acetylide) Complexes. **2016**, 35, 2944-2954	38
418	Integrated Nanoelectronics. **2016**,	10

417	Thermoelectric effects of the single-spin state in the ferromagnetic-normal junction with artificial magnetic impurities. **2016**, 49, 405305	1
416	Transition from Strong to Weak Electronic Coupling in a Single-Molecule Junction. **2016**, 117, 126804	30
415	Tunnel Junction, Coulomb Blockade, and Quantum Dot Circuit. **2016**, 223-245	
414	Spin-orbital and spin Kondo effects in parallel coupled quantum dots. **2016**, 93,	12
413	Conduction mechanism of nitronyl-nitroxide molecular magnetic compounds. **2016**, 93,	4
412	Voltage Quench Dynamics of a Kondo System. **2016**, 116, 036801	27
411	Multiferroics for Spintronics. **2016**, 139-162	
410	On the accuracy of the noninteracting electron approximation for vibrationally coupled electron transport. **2016**, 481, 117-123	6
409	A Single-Level Tunnel Model to Account for Electrical Transport through Single Molecule- and Self-Assembled Monolayer-based Junctions. **2016**, 6, 26517	57
408	Conductance and activation energy for electron transport in series and parallel intramolecular circuits. **2016**, 18, 32087-32095	11
407	Interference-based molecular transistors. **2016**, 6, 33686	11
406	- Introduction. **2016**, 16-19	
405	Coulomb-blockade effect in nonlinear mesoscopic capacitors. **2016**, 94,	12
404	An atomic symmetry-controlled thermal switch. **2016**, 6, 31161	11
403	Charge and spin transport in single and packed ruthenium-terpyridine molecular devices: Insight from first-principles calculations. **2016**, 6, 31856	4
402	Metallic, magnetic and molecular nanocontacts. **2016**, 11, 499-508	42
401	Structure–function relationships in single molecule rectification by N-phenylbenzamide derivatives. **2016**, 40, 7373-7378	6
400	A New Approach to Materials Discovery for Electronic and Thermoelectric Properties of Single-Molecule Junctions. **2016**, 16, 1308-16	31

399	Modulation of mechanical resonance by chemical potential oscillation in graphene. **2016**, 12, 240-244	28
398	Molecular-Scale Electronics: From Concept to Function. **2016**, 116, 4318-440	746
397	Electron transport properties and spin modulation effect analysis for C60, Au@C60 and Ag@C60. **2016**, 122, 1	
396	Investigation of molecular junctions with inelastic electron tunneling spectroscopy. **2016**, 51, 603-620	13
395	Observation of ionic Coulomb blockade in´nanopores. **2016**, 15, 850-5	120
394	Statistical investigation of the length-dependent deviations in the electrical characteristics of molecular electronic junctions fabricated using the direct metal transfer method. **2016**, 28, 094003	6
393	Effects of Electrode-Molecule Binding and Junction Geometry on the Single-Molecule Conductance of bis-2,2':6',2?-Terpyridine-based Complexes. **2016**, 55, 2691-700	19
392	Electrical characterization of benzenedithiolate molecular electronic devices with graphene electrodes on rigid and flexible substrates. **2016**, 27, 145301	10
391	Influence of the supramolecular order on the electrical properties of 1D coordination polymers based materials. **2016**, 8, 2386-94	7
390	Field-induced conductance switching by charge-state alternation in organometallic single-molecule junctions. **2016**, 11, 170-6	126
389	Crossover from quantum to classical transport. **2016**, 57, 19-45	6
388	Quantum state readout of individual quantum dots by electrostatic force detection. **2017**, 28, 064001	19
387	Azulene-bridged coordinated framework based quasi-molecular rectifier. **2017**, 5, 2223-2229	11
386	Full counting statistics of phonon-assisted Andreev tunneling through a quantum dot coupled to normal and superconducting leads. **2017**, 95,	10
385	Stereoelectronic Effect-Induced Conductance Switching in Aromatic Chain Single-Molecule Junctions. **2017**, 17, 856-861	55
384	Spin decoherence of magnetic atoms on surfaces. **2017**, 92, 40-82	44
383	Molecular magnetism, quo vadis? A historical perspective from a coordination chemist viewpoint?. **2017**, 339, 17-103	218
382	From tunneling to contact in a magnetic atom: The non-equilibrium Kondo effect. **2017**, 146, 092309	18

381	Quantum transport simulation scheme including strong correlations and its application to organic radicals adsorbed on gold. **2017**, 95,	23
380	Smallest fullerene-like clusters in two-probe device junctions: first principle study. **2017**, 115, 1678-1686	2
379	Kondo-Fano resonance in atomic-scale contacts for ferromagnetic metals. **2017**, 807, 082002	
378	Electrical Read-Out of a Single Spin Using an Exchange-Coupled Quantum Dot. **2017**, 11, 3984-3989	32
377	Introducing the Inner Structure of the Magnetic Atom in the Interaction Between a Transition Metal Atom Impurity and a Metal Surface. **2017**, 17-30	
376	Perspectives for Polyoxometalates in Single-Molecule Electronics and Spintronics. **2017**, 251-286	25
375	Predicting transport regime and local electrostatic environment from Coulomb blockade diamond sizes. **2017**, 146, 104306	2
374	Theory of charge transport in molecular junctions: Role of electron correlation. **2017**, 146, 134113	2
373	Proliferating miller indices of C fullerene device under DFT-NEGF regime. **2017**, 71, 184-191	12
372	Healing Effect of Controlled Anti-Electromigration on Conventional and High-T Superconducting Nanowires. **2017**, 13, 1700384	13
371	Current Analysis and Modeling of Fullerene Single-Electron Transistor at Room Temperature. **2017**, 46, 4294-4298	14
370	Oscillation and suppression of Kondo temperature by RKKY coupling in two-site Kondo systems. **2017**, 807, 082004	3
369	Thermally Activated Tunneling Transition in a Photoswitchable Single-Molecule Electrical Junction. **2017**, 8, 2849-2854	18
368	Uncovering hierarchical data structure in single molecule transport. **2017**, 146, 092321	12
367	Forces from periodic charging of adsorbed molecules. **2017**, 146, 092327	13
366	Perspective: Thermal and thermoelectric transport in molecular junctions. **2017**, 146, 092201	104
365	Reversible on-surface wiring of resistive circuits. **2017**, 8, 4340-4346	4
364	Attenuation and amplification of the transient current in nanojunctions with time-varying gate potentials. **2017**, 31, 1750105	1

363	Coulomb Blockade Plasmonic Switch. **2017**, 17, 2584-2588	14
362	Single-molecule devices: materials, structures and characteristics. **2017**, 28, 3936-3954	2
361	Switching function of the diphenylacetylene molecule between carbon nanotubes & carbon chain: A DFT study. **2017**, 101, 101-108	3
360	Nanosphere Lithography for Sub-10-nm Nanogap Electrodes. **2017**, 3, 1600348	22
359	A reversible single-molecule switch based on activated antiaromaticity. **2017**, 3, eaao2615	63
358	Towards Rectifying Performance at the Molecular Scale. **2017**, 375, 85	9
357	Experimental Observation of Real Time Molecular Dynamics Using Electromigrated Tunnel Junctions. **2017**, 121, 22550-22558	3
356	Time Evolution of the Kondo Resonance in Response to a Quench. **2017**, 119, 156601	17
355	Morphology pursuance in C20 fullerene molecular junction: ab initio implementation. **2017**, 02, 1750007	6
354	Inelastic electron tunneling spectroscopy in molecular junctions showing quantum interference. **2017**, 95,	9
353	Multiplicity of atomic reconfigurations in an electrochemical Pb single-atom transistor. **2017**, 95,	6
352	Signature of f-electron conductance in Ce single-atom contacts. **2017**, 96,	3
351	High-Performance Single-Electron Transistor Based on Metal–Organic Complex of Thiophene: First Principle Study. **2017**, 64, 4628-4635	7
350	Spin and tunneling dynamics in an asymmetrical double quantum dot with spin-orbit coupling: Selective spin transport device. **2017**, 122, 114301	3
349	Transport and excitations in a negative-U quantum dot at the LaAlO/SrTiO interface. **2017**, 8, 395	18
348	Multiple periodicity in a nanoparticle-based single-electron transistor. **2017**, 8, 402	15
347	A method of dopant electron energy spectrum parameterization for calculation of single-electron nanodevices. **2017**, 72, 279-286	3
346	Vertical resonant tunneling transistors with molecular quantum dots for large-scale integration. **2017**, 9, 11297-11302	4

345	Single Electron Transistor with Single Aromatic Ring Molecule Covalently Connected to Graphene Nanogaps. **2017**, 17, 5335-5341	39
344	Through-membrane electron-beam lithography for ultrathin membrane applications. **2017**, 111, 063105	10
343	Electromigration and the structure of metallic nanocontacts. **2017**, 4, 031302	23
342	Room-temperature current blockade in atomically defined single-cluster junctions. **2017**, 12, 1050-1054	49
341	Quantum interference in multi-branched molecules: The exact transfer matrix solutions. **2017**, 147, 214115	3
340	A simple molecular orbital treatment of current distributions in quantum transport through molecular junctions. **2017**, 147, 194106	4
339	Influence of phonon-assisted tunneling on the linear thermoelectric transport through molecular quantum dots. **2017**, 96,	9
338	The synthesis and electrical transport of ligand-protected Au13 clusters. **2017**, 71, 1	2
337	Molecule-Based Devices. **2017**, 23-50	
336	Kondo cloud of single heavy quark in cold and dense matter. **2017**, 773, 428-434	11
335	Molecular Properties of Sandwiched Molecules Between Electrodes and Nanoparticles. **2017**, 75, 53-102	5
334	Fe3O4@SiO2 magnetic nanoparticles for bulk scale synthesis of 4?-chloro-2,2?:6?,2?-terpyridine. **2017**, 71, 2445-2453	3
333	Fano profiles in palladium nanoconstrictions. **2017**, 262, 16-19	
332	Single-molecule quantum dot as a Kondo simulator. **2017**, 8, 16012	57
331	Electrical conductivity of dithiophene-based diblock molecular junctions. **2017**, 1099, 64-74	1
330	On-command controlled drug release by diels-Alder reaction using Bi-magnetic core/shell nano-carriers. **2017**, 150, 15-22	20
329	Single-electron devices in silicon. **2017**, 33, 944-962	11
328	Nanofabrication by Self-Assembly. **2017**, 365-399	

327	Kondo effect in double quantum dots with ferromagnetic RKKY interaction. **2017**, 29, 025601	2
326	Topology and stability of the Kondo phase in quark matter. **2017**, 96,	11
325	Single-Molecule Analysis Methods Using Nanogap Electrodes and Their Application to DNA Sequencing Technologies. **2017**, 90, 1189-1210	14
324	On-Chip Break Junctions and Period-Adjustable Grating Driven by Thermal Stress. **2017**, 12, 1750139	2
323	Single-electron transistor with an island formed by several dopant phosphorus atoms. **2017**, 72, 474-479	4
322	Transport coefficients from the QCD Kondo effect. **2017**, 96,	13
321	Theoretical Study on Effect of Defective Connection to Reservoirs in an Atomic-Scale Conductor. **2017**, 2017, 1-6	
320	Inelastic electron tunneling spectroscopy of difurylethene-based photochromic single-molecule junctions. **2017**, 8, 2606-2614	10
319	Spin-dependent transport and functional design in organic ferromagnetic devices. **2017**, 8, 1919-1931	10
318	High Electrical Conductivity of Single Metal-Organic Chains. **2018**, 30, e1705645	11
317	An analytical approach to model capacitance and resistance of capped carbon nanotube single electron transistor. **2018**, 90, 97-102	23
316	Perspective: Theory of quantum transport in molecular junctions. **2018**, 148, 030901	90
315	Engineering the Kondo state in two-dimensional semiconducting phosphorene. **2018**, 97,	3
314	How to distinguish between interacting and noninteracting molecules in tunnel junctions. **2018**, 10, 3904-3910	4
313	A broadened classical master equation approach for treating electron-nuclear coupling in non-equilibrium transport. **2018**, 148, 102317	14
312	Dynamical spin accumulation in large-spin magnetic molecules. **2018**, 97,	3
311	Protein bioelectronics: a review of what we do and do not know. **2018**, 81, 026601	123
310	Charge transport in a single molecule transistor probed by scanning tunneling microscopy. **2018**, 10, 1487-1493	11

309	Lateral hydrogen microsensors prepared on-chip by local oxidation of platinum-decorated titanium films. **2018**, 8, 055301	
308	Abrupt Switching of Crystal Fields during Formation of Molecular Contacts. **2018**, 12, 3280-3286	6
307	Thermoelectricity in single-molecule devices. **2018**, 34, 1275-1286	4
306	A multilayer multiconfiguration time-dependent Hartree study of the nonequilibrium Anderson impurity model at zero temperature. **2018**, 509, 13-19	15
305	Transition voltage spectroscopy analysis of charge transport through molecular nanojunctions. **2018**, 53, 246-263	4
304	Negative differential resistance observation in complex convoluted fullerene junctions. **2018**, 123, 161511	1
303	Metal/molecule/metal junction studies of organometallic and coordination complexes; What can transition metals do for molecular electronics?. **2018**, 140, 25-34	29
302	Molecular Electronics. **2018**, 235-260	
301	Surface effects on ionic Coulomb blockade in nanometer-size pores. **2018**, 29, 025703	2
300	First principle study of single electron transistor based on metal-organic complex of dibenzothiophene. **2018**, 53, 227-234	9
299	Steady state current fluctuations and dynamical control in a nonequilibrium single-site Bose‐Hubbard system. **2018**, 492, 1399-1407	1
298	Single-Electron Tunneling Effects in Electromigrated Coulomb Island between Au Nanogaps. **2018**,	2
297	Electron Transport in a Single-Electron Molecular Transistor with an Rh, Ru, or Pt Single-Atom Charge Center. **2018**, 73, 493-500	
296	Advances in Molecular Electronics: A Brief Review. **2018**, 4, 760-771	40
295	Impact of Hydrogen Adsorption on the Performance of a Single Electron Transistor Utilizing Fullerene Quantum Dots. **2018**, 7, M191-M194	4
294	Single Electron Transistor Scheme Based on Multiple Quantum Dot Islands: Carbon Nanotube and Fullerene. **2018**, 7, M145-M152	12
293	Kondo-peak splitting and resonance enhancement caused by interdot tunneling in coupled double quantum dots. **2018**, 98,	12
292	Tuning Charge Transport in Aromatic-Ring Single-Molecule Junctions via Ionic-Liquid Gating. **2018**, 130, 14222-14227	18

291	Admittance of Atomic and Molecular Junctions and Their Signal Transmission. **2018**, 9,	
290	Molecular rectifiers based on five-coordinate iron(iii)-containing surfactants. **2018**, 47, 14153-14168	4
289	Tuning Charge Transport in Aromatic-Ring Single-Molecule Junctions via Ionic-Liquid Gating. **2018**, 57, 14026-14031	36
288	Electrostatic Gate Control in Molecular Transistors. **2018**, 376, 37	3
287	Analysis and Modeling of Fullerene Single Electron Transistor Based on Quantum Dot Arrays at Room Temperature. **2018**, 47, 4799-4806	11
286	Quo vadis, unimolecular electronics?. **2018**, 10, 10316-10332	19
285	Metal bis(acetylide) complex molecular wires: concepts and design strategies. **2018**, 47, 14125-14138	34
284	Magnetic properties of transition metal dimers probed by inelastic neutron scattering. **2018**, 47, 11953-11959	4
283	A computational study on a multimode spin conductance switching by coordination isomerization in organometallic single-molecule junctions. **2018**, 20, 20280-20286	3
282	Photoinduced Anomalous Coulomb Blockade and the Role of Triplet States in Electron Transport through an Irradiated Molecular Transistor. **2018**, 18, 5015-5023	18
281	Analysis and modeling of quantum capacitance on graphene single electron transistor. **2018**, 32, 1850235	6
280	Coherent Resonant Electron Tunneling at 9 and 300 K through a 4.5 nm Long, Rigid, Planar Organic Molecular Wire. **2018**, 3, 5125-5130	14
279	Analysis of Co-Tunneling Current in Fullerene Single-Electron Transistor. **2018**, 48, 406-410	5
278	Magnetic Impurities on Surfaces: Kondo and Inelastic Scattering. **2018**, 1-32	
277	A Silicon Cluster Based Single Electron Transistor with Potential Room-Temperature Switching. **2018**, 35, 037301	12
276	Temperature dependent electron transport and inelastic electron tunneling spectroscopy of porphyrin molecular junctions. **2018**, 63, 58-64	2
275	Cooling by heating in nonequilibrium nanosystems. **2018**, 98,	19
274	Realization of Molecular-Based Transistors. **2018**, 30, e1706941	17

273	Exchange-correlation functionals of i-DFT for asymmetrically coupled leads. **2018**, 91, 1	3
272	Spectroscopic interrogation and charge transport properties of molecular transistors. **2019**, 54, 803-828	0
271	Functional molecular electronic devices through environmental control. **2019**, 62, 1-7	9
270	Switching the Spin on a Ni Trimer within a Metal-Organic Motif by Controlling the On-Top Bromine Atom. **2019**, 13, 9936-9943	7
269	Photoinduced anomalous Coulomb blockade and the role of triplet states in electron transport through an irradiated molecular transistor. II. Effects of electron-phonon coupling and vibrational relaxation. **2019**, 151, 054704	2
268	Application of electrochemistry to single-molecule junctions: from construction to modulation. **2019**, 62, 1333-1345	6
267	Flash Ablation of Tunable and Deep-Subwavelength Nanogap by Using a Spatially Modulated Femtosecond Laser Pulse for Plasmonic Application. **2019**, 2, 4933-4941	4
266	Application of single-electron effects to fingerprints of chips using image recognition algorithms. **2019**, 115, 033504	4
265	Molecular Helmholtz coils. **2019**, 151, 014102	1
264	Molecular attachment to a microscope tip: inelastic tunneling, Kondo screening, and thermopower. **2019**, 10, 1243-1250	0
263	Magnon blockade in a hybrid ferromagnet-superconductor quantum system. **2019**, 100,	34
262	Magnetic field dependence of the thermopower of Kondo-correlated quantum dots: Comparison with experiment. **2019**, 100,	2
261	Quantum entanglement driven by electron-vibrational mode coupling. **2019**, 100,	6
260	Magnetic field dependence of the thermopower of Kondo-correlated quantum dots. **2019**, 100,	8
259	Local temperatures out of equilibrium. **2019**, 830, 1-66	8
258	Charge nonconservation of molecular devices in the presence of a nonlocal potential. **2019**, 100,	2
257	Exploring the Kondo Effect of an Extended Impurity with Chains of Co Adatoms in a Magnetic Field. **2019**, 123, 176601	2
256	Detection of Spin-Vibration States in Single Magnetic Molecules. **2019**, 123, 106803	12

255	Experimental Realization of a Quantum Dot Energy Harvester. **2019**, 123, 117701	42
254	Scenarios of local spectral property and multifunctional spin selecting for a triple quantum dot molecule: How do the bonding and antibonding orbitals contribute to the spin currents?. **2019**, 15, 102601	1
253	First-principles quantum transport simulation of CuPc on Au(111) and Ag(111). **2019**, 99,	3
252	Charge transfer complexation boosts molecular conductance through Fermi level pinning. **2019**, 10, 2396-2403	27
251	Kondo screening in a charge-insulating spinon metal. **2019**, 15, 754-758	10
250	Spontaneous Formation of Nanogap Electrodes by Self-Peeling Adhesion Lithography. **2019**, 6, 1900243	4
249	Single-molecule quantum-transport phenomena in break junctions. **2019**, 1, 381-396	99
248	Structure–thermopower relationships in molecular thermoelectrics. **2019**, 7, 14419-14446	41
247	Auxiliary Master Equation for Nonequilibrium Dual-Fermion Approach. **2019**, 122, 186803	8
246	Enhanced Separation Concept (ESC): Removing the Functional Subunit from the Electrode by Molecular Design. **2019**, 2019, 5334-5343	6
245	Paving the way to single-molecule chemistry through molecular electronics. **2019**, 21, 9641-9650	5
244	Microwave-assisted reversal of a single electron spin. **2019**, 125, 142801	3
243	Controlled Molecular Magnetism of Bi- and Polynuclear Transition Metal Complexes Based on Hydrazones, Azomethines, and Their Analogs. **2019**, 45, 163-187	5
242	Investigating the electrical characteristics of a single electron transistor utilizing graphene nanoribbon as the island. **2019**, 30, 8007-8013	9
241	Large Kondo effect in assemblies of Au nanoparticles linked with alkanedithiol electron bridges. **2019**, 11, 5395-5401	1
240	Electronic properties of the parabolic Dirac system. **2019**, 383, 1795-1805	3
239	Boosting oxygen evolution of single-atomic ruthenium through electronic coupling with cobalt-iron layered double hydroxides. **2019**, 10, 1711	271
238	Direct-write single electron transistors by focused electron beam induced deposition. **2019**, 3, 025001	4

237	Concepts in the design and engineering of single-molecule electronic devices. **2019**, 1, 211-230	191
236	Gap states controlled transmission through 1D metal-nanotube junctions. **2019**, 146, 106-115	
235	Sub-5 nm Metal Nanogaps: Physical Properties, Fabrication Methods, and Device Applications. **2019** , 15, e1804177	53
234	Kondo phase diagram of quark matter. **2019**, 983, 90-102	8
233	In-situ control of electrical properties of nanoelectromechanical resonators by electromigration for self-sustained oscillations. **2019**, 115, 203101	1
232	Correlated impurity complex in the asymmetric tunneling contact: an ideal system to observe negative tunneling conductivity. **2019**, 9, 15974	2
231	Direct Probe of the Seebeck Coefficient in a Kondo-Correlated Single-Quantum-Dot Transistor. **2019**, 19, 506-511	24
230	Static Regulation and Dynamic Evolution of Single-Atom Catalysts in Thermal Catalytic Reactions. **2019**, 6, 1801471	30
229	Toward Plasmonic Tunnel Gaps for Nanoscale Photoemission Currents by On-Chip Laser Ablation. **2019**, 19, 1172-1178	23
228	Single-Molecule Electrical Detection: A Promising Route toward the Fundamental Limits of Chemistry and Life Science. **2020**, 53, 159-169	37
227	Quantitative comparison of Anderson impurity solvers applied to transport in quantum dots. **2020**, 32, 095602	2
226	Nanoscale Organic Thermoelectric Materials: Measurement, Theoretical Models, and Optimization Strategies. **2020**, 30, 1903873	62
225	Electrical and spin switches in single-molecule junctions. **2020**, 2, 92-112	22
224	Efficient compression of the environment of an open quantum system. **2020**, 102,	2
223	Introduction. **2020**, 1-6	
222	Novel Phenomena in Single-Molecule Junctions. **2020**, 119-135	
221	Advances and challenges in single-molecule electron transport. **2020**, 92,	73
220	Photoswitching Molecular Junctions: Platforms and Electrical Properties. **2020**, 21, 2368-2383	3

219	Quantum transport with electronic relaxation in electrodes: Landauer-type formulas derived from the driven Liouville-von Neumann approach. **2020**, 153, 044103	3
218	Multifaceted aspects of charge transfer. **2020**, 22, 21583-21629	15
217	. **2020**,	2
216	Integrating Molecular Functionalities into Electrical Circuits. **2020**, 225-374	
215	Yu-Shiba-Rusinov states of a single magnetic molecule in an s-wave superconductor. **2020**, 102,	2
214	Exact solution of electronic transport in semiconductors dominated by scattering on polaronic impurities. **2020**, 102,	0
213	Rational design of []-fusion induced high-performance DHP/CPD based photoswitches. **2020**, 22, 26255-26264	2
212	Single-molecule functionality in electronic components based on orbital resonances. **2020**, 22, 12849-12866	7
211	Thermoelectric properties through a wire composed of isoprene molecules. **2020**, 10, 065021	2
210	Single-Molecular Bridging in Static Metal Nanogap Electrodes Using Migrations of Metal Atoms. **2020**, 124, 14007-14015	5
209	The emergence of the local moment molecular spin transistor. **2020**, 32, 234002	9
208	An ab initio perspective on scanning tunneling microscopy measurements of the tunable Kondo resonance of the TbPc2 molecule on a gold substrate. **2020**, 101,	0
207	Electrical monitoring of photoisomerization of block copolymers intercalated into graphene sheets. **2020**, 11, 1324	10
206	Green's function methods for single molecule junctions. **2020**, 152, 090901	16
205	Theoretical study of the effect of the Coulomb blockade and Kondo resonance in the density of states using self-consistent field approximation. **2020**, 66, 580-586	
204	Organic Spintronics: A Theoretical Investigation of a Graphene-Porphyrin Based Nanodevice. **2020**, 6, 27	
203	The duality of electron localization and covalency in lanthanide and actinide metallocenes. **2020**, 11, 2796-2809	27
202	Syntheses of terpyridine-pyridylbenzothiazole linked ditopic ligands and their copper(II) complexes. **2020**, 179, 114403	1

201	Hierarchical equations of motion method based on Fano spectrum decomposition for low temperature environments. **2020**, 152, 064107	21
200	Current Analysis of Single Electron Transistor Based on Graphene Double Quantum Dots. **2020**, 9, 021003	8
199	Systematic Modulation of Charge Transport in Molecular Devices through Facile Control of Molecule-Electrode Coupling Using a Double Self-Assembled Monolayer Nanowire Junction. **2020**, 142, 9708-9717	12
198	DFT Analysis of Vanadium Tris(Dithiolene)-Based Double-Gated Single-Electron Transistor. **2020**, 49, 4203-4211	1
197	Intra- and intermolecular self-assembly of a 20-nm-wide supramolecular hexagonal grid. **2020**, 12, 468-474	47
196	Enhanced magnetic spin‐spin interactions observed between porphyrazine derivatives on Au(111). **2020**, 3,	1
195	Control of Unipolar/Ambipolar Transport in Single-Molecule Transistors through Interface Engineering. **2020**, 6, 1901237	13
194	Metal Complexes for Molecular Electronics. **2021**, 38-80	
193	Discovery of single-molecule electret properties in the endohedral fullerene Gd@C82. **2021**, 66, 643-644	
192	Einstein-Podolsky-Rosen steering and nonlocality in quantum dot systems. **2021**, 126, 114412	2
191	Towards Responsive Single-Molecule Device. **2021**, 39, 421-439	2
190	Tuning metal to metal charge transfer properties in cyanidometal-bridged complexes by changing the auxiliary ligand on the bridge. **2021**, 50, 6161-6169	4
189	Fabrication of metallic and non-metallic top electrodes for large-area molecular junctions. **2021**, 13, 9055-9074	6
188	Kondo effect and RKKY interaction assisted by magnetic anisotropy in a frustrated magnetic molecular device at zero and finite temperature. **2021**, 23, 5878-5887	1
187	A small heterocyclic molecule as a multistate transistor: a quantum many-body approach. **2021**, 9, 10927-10934	
186	Single molecule electronic devices with carbon-based materials: status and opportunity. **2021**, 13, 659-671	6
185	Molecular Devices. **2021**, 206-240	1
184	Spin and charge localisation due to the interplay of Ac gate voltage and spin‐orbit interaction. **2021**, 101, 851-866	

183	Electromigrated nanogaps: A review on the fabrications and applications. **2021**, 39, 010802	1
182	Application of Micro/Nanofabrication Techniques to On-Chip Molecular Electronics.. **2021**, 5, e2001034	6
181	Theoretical Insight into Quantum Transport Via Molecular Dots in a Vertical Tunnel Transistor. **2021** , 3, 973-978	0
180	The current analysis of a single electron transistor based on double graphene nanoscroll island. **2021**, 327, 114234	0
179	Dynamic generation of Greenberger-Horne-Zeilinger states with coupled charge qubits. **2021**, 103,	1
178	From molecular to supramolecular electronics. **2021**, 6, 804-828	38
177	Inelastic Electron Tunneling Spectroscopy: Investigation of Bulk Dielectrics and Molecules. **2021**, 68, 1411-1419	0
176	Realizing quinary charge states of solitary defects in two-dimensional intermetallic semiconductor.. **2022**, 9, nwab070	1
175	A Family of Lanthanide Hydroxo Carboxylates with 1D Polymeric Topology and Ln Butterfly Core Exhibits Switchable Supramolecular Arrangement. **2021**, 60, 8049-8061	6
174	Phase-controlled multimagnon blockade and magnon-induced tunneling in a hybrid superconducting system. **2021**, 103,	7
173	Single-Electron Transistor Based on Cobalt Oxide. **2021**,	1
172	Influence of Fine Ligand Substitution Modification of the Isocyanidometal Bridge on Metal-to-Metal Charge Transfer Properties in Class II-III Mixed Valence Complexes. **2021**, 27, 11183-11194	2
171	Toward Devices and Applications. **2021**, 345-409	
170	Fabricating Methods and Materials for Nanogap Electrodes. **2021**, 57-187	0
169	Fabrication of nanogap structures through spatially shaped femtosecond laser modification with the assistance of wet chemical etching. **2021**, 46, 3560-3563	
168	Single-Molecule Doping: Conductance Changed By Transition Metal Centers in Salen Molecules. **2021**, 7, 2100252	0
167	Electron Transport in Single Molecular Devices. **2021**, 25-56	
166	Single-Molecule Electronic Devices. **2021**, 239-299	

165	Nanogap Electrodes and Molecular Electronic Devices. **2021**, 1-24	
164	Modulating the charge transport in metal|molecule|metal junctions via electrochemical gating. **2021**, 388, 138540	3
163	A multiconfiguration pair-density functional theory-based approach to molecular junctions. **2021**, 155, 114115	
162	Light induced negative differential conductance in molecular junctions: Role of triplet states and electron-phonon interaction. **2021**, 133, 114792	1
161	Principles of Molecular Machines at the Single-Molecule Scale. 1484-1502	3
160	Thermal Transistor Effect in Quantum Systems. **2021**, 16,	0
159	Quantum interference effects in multi-channel correlated tunneling structures. **2021**, 11, 17676	
158	Optically induced Kondo effect in semiconductor quantum wells. **2021**, 33,	0
157	Spin-sensitive charge oscillation in a single-molecule transistor. **2021**,	1
156	Role of nearly-degenerate vibrational modes in electron transport through weakly-coupled molecular junctions. **2021**, 29, e00589	
155	On the theory of charge transport and entropic effects in solvated molecular junctions. **2021**, 154, 034110	3
154	The Kondo Effect in Mesoscopic Quantum Dots.	8
153	CrossNets: Neuromorphic Networks for Nanoelectronic Implementation. **2003**, 753-760	1
152	Nanoelectronic Devices Based on Proteins. **2009**, 139-166	1
151	Lattice Polarons and Switching in Molecular Nanowires and Quantum Dots. **2007**, 305-356	3
150	Charge Transfer And Interfacial Bioelectrochemistry At The Nanoscale And Single-Molecule Levels. **2008**, 249-302	6
149	General Description. **2013**, 1-38	2
148	Introduction: Molecular Electronics. **2014**, 1-7	1

147	Electron Transport Through Mesoscopic Closed Loops and Molecular Bridges. **2007**, 267-304	1
146	Measurements and Mechanisms of Single-Molecule Conductance Switching. **2008**, 29-47	8
145	Organometallic Nanojunctions Probed by Different Chemistries: Thermo-, Photo-, and Mechano-Chemistry. **2009**, 219-235	7
144	Azobenzene-Metal Junction as a Mechanically and Opto-Mechanically Driven Switch. **2009**, 95-108	1
143	Molecular Conductance from Ab Initio Calculations: Self Energies and Absorbing Boundary Conditions. **2010**, 27-53	2
142	Three Unimolecular Rectifiers and a Proposed Unimolecular Amplifier. **2004**, 269-293	2
141	The Design, Characterization and Use of Molecules in Molecular Devices. **2004**, 295-315	1
140	Tunneling Through Single Molecules. **2003**, 223-236	1
139	Design of molecular scaffolds based on unusual geometries for magnetic modulation of spin-diverse complexes with selective redox response. **2007**, 46, 72-8	28
138	Kondo blockade due to quantum interference in single-molecule junctions. **2017**, 8, 15210	26
137	Formation of atomic point contacts and molecular junctions with a combined mechanical break junction and electrodeposition method. **2006**, 1, 83	12
136	Toward the Emergence of Nanoneurosurgery: Part III-Progress in Nanoscience, Nanotechnology, and the Comprehension of Events in the Mesoscale Realm. **2005**, 57, 606-634	12
135	Magnetic-field-induced transition in a quantum dot coupled to a superconductor. **2020**, 2,	4
134	Renormalized Lindblad driving: A numerically exact nonequilibrium quantum impurity solver. **2020**, 2,	5
133	Fabrication of a Single-Electron Inverter in Single-Wall Carbon Nanotubes. **2005**, 44, 1588-1591	9
132	Conductance Spectroscopy of Low-Lying Electronic States of Arrays of Metallic Quantum Dots. **2005**, 153-177	0
131	Interplay of Kondo and Fano Resonance in Electronic Transport in Nanostructures. **2005**, 108, 555-569	2
130	Creation of conjugated polymer nanowires through controlled chain polymerization. **2004**, 2, 99-105	6

129	Spin-transfer Motor. **2007**, 31, 305	2
128	Gold nanowire tip-contact-related negative differential resistance twice and the rectification effects. **2015**, 64, 057301	3
127	Fabrication of Nanogap Electrodes by the Molecular Lithography Technique. **2011**, 50, 035204	2
126	Recent progress in single-molecule transistors: their designs, mechanisms and applications.	5
125	Crystal Structure and Magnetic Properties of Trinuclear Transition Metal Complexes (Mn, Co, Ni and Cu) with Bridging Sulfonate-Functionalized 1,2,4-Triazole Derivatives. **2021**, 26,	1
124	Metal Complexes and Clusters in Single-Molecule Electronics. 1-21	
123	Quantum Circuit Rules for Molecular Electronic Systems: Where Are We Headed Based on the Current Understanding of Quantum Interference, Thermoelectric, and Molecular Spintronics Phenomena?. **2021**, 21, 8532-8544	2
122	Preparation and Nanopatterning of Organic Monolayers Anchored Covalently to Silicon Surfaces.. **2002**, 23, 622-627	
121	New spin on transistors. *Nature*,	50.4
120	Molecular Transport Through Single Molecules. **2003**, 403-418	
119	??????????????????????????. **2003**, 71, 952-955	
118	Charge and Spin Transport in Organic Nanosystems: Rectification, Switching, and Spin Injection. **2004**, 39-56	
117	Polarons in Complex Oxides and Molecular Nanowires. **2004**, 151-166	
116	Characterization of Nanoscale Molecular Junctions. **2004**, 1-12	
115	Spin-Dependent Electronic Transport through Molecular Devices. **2004**, 307-318	
114	Quantum Dot in the Kondo Regime Coupled to Unconventional Superconducting Electrodes. **2004**, 203-217	1
113	Nanomaterials Synthesis and Applications: Molecule-Based Devices. **2004**, 9-38	
112	Single-Molecule Conformational Switches. **2004**, 21-28	

111 Molecular electronics. **2004**,

110 Nanostructured Materials (NSM). **2005**, 273-355

109 Charge Transport Through A Single Molecule of Dibenzo[a,j]coronene on Si(001)-2 * 1: Possible Coulomb Blockade. **2006**, 4, 588-592 1

108 Electrical Conductivity of Single Molecules. **2006**, 159-181

107 Fabrication of Nanostructures Toward Molecular Devices Based on Surface Coordination Chemistry of Molecular Units. **2006**, 27, 138-144

106 Nanomaterials Synthesis and Applications: Molecule-Based Devices. **2007**, 13-42

105 Chapter 8:Unimolecular Electronic Devices. **2007**, 205-230 1

104 The Two Channel Kondo Effect in Quantum Dots. **2007**, 27-44

103 From Dilute Magnetic Alloys to Confined Nanostructures: Evolution of the Kondo Effect. **2007**, 1-26

102 Molecular Conductance Junctions. **2007**, 12-1-12-27 1

101 Nanoarchitectonics. **2007**, 10-1-10-24

100 ??????????????????????. **2008**, 51, 439-444 1

99 Spectroscopic Analysis of Finite Size Effects Around a Kondo Quantum Dot. **2008**, 163-174

98 ????????????????????????????????????. **2008**, 51, 428-432

97 Directed Alignment of Carbon Nanotubes. **2009**, 31-46

96 Introduction to Single-Molecule Transistor. **2009**, 52, 513-518

95 Quantum Impurity Physics in Coupled Quantum Dots. **2009**, 7342-7361

94 Charge Transport and Single-Electron Effects in Nanoscale Systems. 37

93 Concepts in Single-Molecule Electronics. 175

92 Electron Transport Through Molecules in the Kondo Regime: The Role of Molecular Vibrations. **2011**, 45-60

91 Current-Driven Desorption at the Organic MoleculeSemiconductor Interface. **2010**,

90 Fabrication of Two-Dimensional Organic Spin Systems on Gold. **2012**, 91-100

89 Electron Transport in Single Molecules and Nanostructures. **2012**, 149-183

88 Coordination Chemical Approach to Surface Molecular Devices: Molecular Basis toward Surface Programming. **2012**, 60, 2-23

87 Transport Through a Single-Molecule Transistor: Master-Equation Approach. **2012**, 121, 730-732

86 Hybrid Transistor. **2012**, 259-289

85 Switching Mechanisms for Single-Molecule Logic Gates. **2013**, 55-69

84 Ballistic Transport. **2013**, 79-132

83 Nanoelectronic Applications of Molecular Junctions. **2013**, 231-272

82 Inelastic Transport. **2013**, 133-182

81 Visualizing Electron Correlation in Molecules Using a Scanning Tunneling Microscope: Theory and Ab Initio Prediction. **2013**, 181-192

80 Electronic and Magnetic Properties of MePc on Ag(100). **2014**, 73-113

79 Repeatable Copper(II)/(I) Redox Potential Switching Driven Visible Light-Induced Coordinated Ring Rotation. **2014**, 79-120

78 General Introduction. **2014**, 1-23

77 Single-Molecule Spintronics. **2014**, 297-318

76 Molecular Electronics: Switchable and Programmable Device Models. 2674-2691

75	Nano-gap Electrodes Developed Using Focused Ion Beam Technology. **2015**, 1513-1528	
74	Control of Particle Nature and Wave Nature of Electron in CNT. **2015**, 213-240	
73	Molecular Spintronics. 295-328	
72	Single-Molecule Devices. **2015**, 1-36	
71	RECONFIGURABLE NANO ELECTRONIC MEMORIES DESIGN FOR SYSTEM ON CHIP. **2016**, 5, 1	
70	Nonlinear excitation of localized plasmon in one-dimensional atomic chain. **2016**, 65, 087301	
69	Coulomb-Blockade in Low-Dimensional Organic Conductors. **2017**, 111-134	1
68	Addressing a Single Molecular Spin with Graphene-Based Nanoarchitectures. **2017**, 165-184	
67	Effect of electrode position and cross section size on transport properties of molecular devices. **2018**, 67, 213101	1
66	Scalable Fabrication of Metallic Nanogaps at the Sub-10´nm Level. **2021**, e2102756	10
65	Magnetic Impurities on Surfaces: Kondo and Inelastic Scattering. **2020**, 467-498	
64	On possibility of binary nanodevices production. **2021**, 45, 27-32	
63	SPM Measurements of Electric Properties of Organic Molecules. **2007**, 776-787	
62	Negative U Molecular Quantum Dot. **2006**, 137-151	
61	Kondo-assisted switching between three conduction states in capacitively coupled quantum dots. **2020**, 2,	
60	Phonon-assisted Andreev reflection driven by a Majorana zero mode. **2021**, 96, 015805	0
59	Impact of electron-phonon coupling on electron transport through T-shaped arrangements of quantum dots in the Kondo regime. **2021**, 12, 1209-1225	
58	Irradiation-induced Kondo resonance in two-dimensional electron systems. **2021**, 2015, 012056	

57	Schemes for Single Electron Transistor Based on Double Quantum Dot Islands Utilizing a Graphene Nanoscroll, Carbon Nanotube and Fullerene.. **2022**, 27,	
56	Influence of a Coordinated Metal Center on Charge Transport through a Series of Porphyrin Molecular Junctions.	2
55	Unveiling non-Abelian statistics of vortex Majorana bound states in iron-based superconductors using fermionic modes. **2022**, 105,	0
54	Techniques for Thin Films of Advanced Materials. **2022**, 81-117	
53	Charge Transport Characteristics of Molecular Electronic Junctions Studied by Transition Voltage Spectroscopy.. **2022**, 15,	1
52	Accurate Single-Molecule Kinetic Isotope Effects.. **2022**,	1
51	Trapping integrated molecular devices local transport circulation.. **2022**,	0
50	Applying bias voltage to improve rectification performance of molecular junction through side gate-group. **2022**, 140, 115186	0
49	Computational characterization of nanosystems. **2022**, 35, 1-15	
48	Single-Molecule Junction: A Reliable Platform for Monitoring Molecular Physical and Chemical Processes.. **2022**,	6
47	The fabrication, characterization and functionalization in molecular electronics.	4
46	A Parabola-like Gold Nanobowtie on a Sapphire Substrate as a Nano-Cavity. **2022**, 9, 193	
45	Effects of Cis/Trans-configuration and Ligand Substitution of the Cyanidometal Bridge on Metal to Metal Charge Transfer Properties in Mixed Valence Complexes.. **2022**,	1
44	Investigation of electronic excited states in single-molecule junctions. 1	0
43	Magnetic-Field Universality of the Kondo Effect Revealed by Thermocurrent Spectroscopy.. **2022**, 128, 147701	2
42	Generalized master equation for charge transport in a molecular junction: Exact memory kernels and their high order expansion.. **2022**, 156, 134114	0
41	Tunable magnon antibunching in a hybrid ferromagnet-superconductor system with two qubits. **2021**, 104,	4
40	Applications of optically and electrically driven nanoscale bowtie antennas. **2022**, 1, 210004-210004	0

39	A single level tunneling model for molecular junctions: evaluating the simulation methods.. **2022**,	
38	Photochromic materials. **2022**,	
37	Stable Universal 1- and 2-Input Single-Molecule Logic Gates.. **2022**, e2202135	0
36	Controllable Electron Transfer in Mixed-Valence Bridged Norbornylogous Compounds: Calculation Combined with a Parametric Model and Through-Bond and Through-Space Interpretation.. **2022**,	1
35	Electron transport through a (terpyridine)ruthenium metallo-surfactant containing a redox-active aminocatechol derivative.. **2022**,	0
34	Single-molecule nano-optoelectronics: Insights from physics.	0
33	Straightforward fabrication of sub-10 nm nanogap electrode pairs by electron beam lithography. **2022**, 77, 275-280	1
32	Sub-5 nm nanogap electrodes towards single-molecular biosensing. **2022**, 213, 114486	0
31	Nanomechanical cat states generated by a dc voltage-driven Cooper pair box qubit. **2022**, 8,	
30	Photon and magnon blockade induced by optomagnonic microcavity. **2022**, 137,	0
29	CNT-molecule-CNT (1D-0D-1D) van der Waals integration ferroelectric memory with 1-nm2 junction area. **2022**, 13,	0
28	2,5-Diaryl 6-hydroxyphenalenones for Single Molecule Junctions.	
27	Visualization Detection Based on Gold Nanoparticles. 13, 148-154	
26	Advances of Various Heterogeneous Structure Types in Molecular Junction Systems and Their Charge Transport Properties. 2202399	0
25	Exchange-induced spin polarization in a single magnetic molecule junction. **2022**, 13,	0
24	Phase transitions induced by exchange coupling, magnetic field, and temperature in a strongly correlated molecular trimer with a triangular topology. **2022**, 24, 22546-22556	0
23	Magnetic Fingerprints in an All-Organic Radical Molecular Break Junction.	0
22	Electrical devices designed based on inorganic clusters. **2022**, 33, 502001	0

21	Room-temperature magnetoresistance in Ni78Fe22/C8-BTBT/Ni78Fe22 nanojunctions fabricated from magnetic thin-film edges using a novel technique.	0
20	Effects of electron charging and magnetization configuration on the electronic properties of Ni/C60/Ni single molecule transistors.	0
19	Electrically induced light emission via nanoscale vacuum discharge in nanogap electrodes without luminescent molecules. **2022**, 132, 174303	0
18	Quantitative studies of single-molecule chemistry using conductance measurement. **2022**, 47, 101660	0
17	Level occupation switching with density functional theory. **2022**, 106,	0
16	Electronic structure of cobalt valence tautomeric molecules in different environments.	0
15	Tuning the Quantum Properties of ZnO Devices by Modulating Bulk Length and Doping. **2022**, 24, 1750	0
14	Molecular Electronics: Creating and Bridging Molecular Junctions and Promoting Its Commercialization. 2209088	0
13	An experimental set-up to probe the quantum transport through a single atomic$$/$$molecular junction at room temperature. **2023**, 97,	0
12	Reactions in single-molecule junctions.	0
11	3 nm Channel MoS2 Transistors by Electromigration of Metal Interconnection.	0
10	Atom electronics in single-molecule transistors: single-atom access and manipulation. **2023**, 8,	0
9	Metal Alkynyl Complexes as Molecular Wires and Devices: A Comparative Study of Electron Density and Delocalisation. **2012**, 85-129	0
8	Influence of Changing the Remote Substituents on Charge Transfer Properties of Cyanide-Bridged Trinuclear FeRuFe Complexes.	0
7	Kondo effect in defect-bound quantum dots coupled to NbSe2. **2023**, 107,	0
6	Dynamical Screening of Local Spin Moments at MetalMolecule Interfaces. **2023**, 17, 5974-5983	0
5	Unconventional magnon blockade in a superconducting qubit coupled magnomechanical system. **2023**, 77,	0
4	Atomic layer deposition assisted fabrication of large-scale metal nanogaps for surface enhanced Raman scattering. **2023**, 34, 265301	0

3	Rashba effect on finite temperature magnetotransport in a dissipative quantum dot transistor with electronic and polaronic interactions. **2023**, 13,	0
2	Polaronic Mechanism of Vibronic Localization in Mixed-Valence Cation Radicals with a Non-Conjugated Chromophore on the Bridge. **2023**, 127, 3281-3292	0
1	Graphene-molecule-graphene single-molecule junctions to detect electronic reactions at the molecular scale.	0