

Leonidas Tsetseris

List of Publications by Year in descending order

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141
papers

5,115
citations

81900

39
h-index

102487

66
g-index

142
all docs

142
docs citations

142
times ranked

6080
citing authors

#	ARTICLE	IF	CITATIONS
1	A Low-Power CuSCN Hydrogen Sensor Operating Reversibly at Room Temperature. <i>Advanced Functional Materials</i> , 2022, 32, 2102635.	14.9	8
2	Doping Approaches for Organic Semiconductors. <i>Chemical Reviews</i> , 2022, 122, 4420-4492.	47.7	153
3	14-GHz Schottky Diodes Using a p-Doped Organic Polymer. <i>Advanced Materials</i> , 2022, 34, e2108524.	21.0	9
4	Low-energy consumption CuSCN-based ultra-low-ppb level ozone sensor, operating at room temperature. <i>Sensors and Actuators A: Physical</i> , 2022, 338, 113462.	4.1	1
5	Near-IR Absorbing Molecular Semiconductors Incorporating Cyanated Benzothiadiazole Acceptors for High-Performance Semitransparent n-Type Organic Field-Effect Transistors. , 2022, 4, 165-174.		12
6	Chlorine-Infused Wide-Band Gap p-CuSCN/n-GaN Heterojunction Ultraviolet-Light Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17889-17898.	8.0	8
7	N-Doping improves charge transport and morphology in the organic non-fullerene acceptor O-IDTBR. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4486-4495.	5.5	17
8	Lithium-Ion Desolvation Induced by Nitrate Additives Reveals New Insights into High Performance Lithium Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2101593.	14.9	100
9	18.4% Organic Solar Cells Using a High Ionization Energy Self-Assembled Monolayer as Hole-Extraction Interlayer. <i>ChemSusChem</i> , 2021, 14, 3569-3578.	6.8	121
10	A direct transfer solution for digital laser printing of CVD graphene. <i>2D Materials</i> , 2021, 8, 045017.	4.4	7
11	Using Two Compatible Donor Polymers Boosts the Efficiency of Ternary Organic Solar Cells to 17.7%. <i>Chemistry of Materials</i> , 2021, 33, 7254-7262.	6.7	35
12	Ligand-bridged charge extraction and enhanced quantum efficiency enable efficient n-i-p perovskite/silicon tandem solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 4377-4390.	30.8	79
13	Formation and properties of iodine- and acetonitrile-functionalized two-dimensional Si materials: a Density Functional Theory study. <i>Physical Chemistry Chemical Physics</i> , 2021, 24, 411-418.	2.8	0
14	A universal solution processed interfacial bilayer enabling ohmic contact in organic and hybrid optoelectronic devices. <i>Energy and Environmental Science</i> , 2020, 13, 268-276.	30.8	40
15	A Simple n-Dopant Derived from Diquat Boosts the Efficiency of Organic Solar Cells to 18.3%. <i>ACS Energy Letters</i> , 2020, 5, 3663-3671.	17.4	253
16	A Multilayered Electron Extracting System for Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2004273.	14.9	17
17	Printable CsPbI ₃ Perovskite Solar Cells with PCE of 19% via an Additive Strategy. <i>Advanced Materials</i> , 2020, 32, e2001243.	21.0	157
18	Self-Assembled Monolayer Enables Hole Transport Layer-Free Organic Solar Cells with 18% Efficiency and Improved Operational Stability. <i>ACS Energy Letters</i> , 2020, 5, 2935-2944.	17.4	425

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19	Water stable molecular n-doping produces organic electrochemical transistors with high transconductance and record stability. <i>Nature Communications</i> , 2020, 11, 3004.	12.8	82
20	17.1% Efficient Single-junction Organic Solar Cells Enabled by n-Type Doping of the Bulk-Heterojunction. <i>Advanced Science</i> , 2020, 7, 1903419.	11.2	173
21	Enhancing the Charge Extraction and Stability of Perovskite Solar Cells Using Strontium Titanate (SrTiO ₃) Electron Transport Layer. <i>ACS Applied Energy Materials</i> , 2019, 2, 8090-8097.	5.1	51
22	Use of the Phenanthroline:Sn(SCN) ₂ Blend as Electron Transport Layer Results to Consistent Efficiency Improvements in Organic and Hybrid Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1905810.	14.9	41
23	Introducing a Nonvolatile n-Type Dopant Drastically Improves Electron Transport in Polymer and Small-Molecule Organic Transistors. <i>Advanced Functional Materials</i> , 2019, 29, 1902784.	14.9	35
24	Addition of the Lewis Acid Zn(C ₆ F ₅) ₂ Enables Organic Transistors with a Maximum Hole Mobility in Excess of 20 cm ² /Vs ¹ . <i>Advanced Materials</i> , 2019, 31, e1900871.	21.0	64
25	Highly sensitive and room temperature detection of ultra-low concentrations of O ₃ using self-powered sensing elements of Cu ₂ O nanocubes. <i>Nanoscale Advances</i> , 2019, 1, 2009-2017.	4.6	15
26	Hybrid organic-metal oxide multilayer channel transistors with high operational stability. <i>Nature Electronics</i> , 2019, 2, 587-595.	26.0	49
27	Copper (I) Selenocyanate (CuSeCN) as a Novel Hole-Transport Layer for Transistors, Organic Solar Cells, and Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2018, 28, 1707319.	14.9	19
28	Remarkable Enhancement of the Hole Mobility in Several Organic Small-Molecules, Polymers, and Small-Molecule:Polymer Blend Transistors by Simple Admixing of the Lewis Acid Dopant B(C ₆ F ₅) ₃ . <i>Advanced Science</i> , 2018, 5, 1700290.	11.2	131
29	Defect Perovskites under Pressure: Structural Evolution of Cs ₂ SnX ₆ (X = Cl, I). <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1107-1111.	3.1	42
30	Computational Studies of Nanographene Systems: Extended Discotics, Covalently Linked Supermolecules, and Functionalized Supramolecular Assemblies. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18715-18731.	3.1	7
31	p-Doping of Copper(I) Thiocyanate (CuSCN) Hole-Transport Layers for High-Performance Transistors and Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1802055.	14.9	50
32	Two-dimensional Mo(SCN) ₂ : a novel MoS ₂ -variant. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 085702.	1.8	4
33	Two-dimensional metal-phosphorus monohydrides. <i>FlatChem</i> , 2017, 2, 49-53.	5.6	6
34	Ca- and Sc-based ternary AlB ₂ -like crystals: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 045701.	1.8	9
35	Two-dimensional thio- and seleno-cyanates of Mo and W. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 485703.	1.8	0
36	Magnetic two-dimensional C ₃ N ₂ carbonitrides: semiconductors, metals and half-metals. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26743-26748.	2.8	15

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37	Copper(I) Thiocyanate (CuSCN) Hole-Transport Layers Processed from Aqueous Precursor Solutions and Their Application in Thin-Film Transistors and Highly Efficient Organic and Organometal Halide Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, 1701818.	14.9	208
38	Two-dimensional cyanates: stabilization through hydrogenation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14662-14666.	2.8	11
39	Phthalo-carbonitride: an <i>ab initio</i> prediction of a stable two-dimensional material. <i>2D Materials</i> , 2016, 3, 021006.	4.4	22
40	Functionalization of two-dimensional phthalo-carbonitride with metal atoms. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26088-26093.	2.8	8
41	Copper thiocyanate: polytypes, defects, impurities, and surfaces. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 295801.	1.8	26
42	Novel Au- and Ge-based two-dimensional materials formed through topotactic transitions of AlB_2 -like structures. <i>Nanoscale</i> , 2016, 8, 13558-13561.	5.6	6
43	Two-dimensional copper thio- and seleno-cyanates. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7837-7840.	2.8	20
44	Stacks of graphene with silicene or germanene: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 035304.	1.8	6
45	Millisecond non-melt laser annealing of phosphorus implanted germanium: Influence of nitrogen co-doping. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	22
46	(Invited) Doping, Functionalization, and Permeability of Graphene: Insights from First-Principles Studies. <i>ECS Transactions</i> , 2014, 64, 121-125.	0.5	0
47	Chemical routes to modify, uplift, and detach a silicene layer from a metal substrate. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5183.	2.8	21
48	Substitutional doping of graphene: The role of carbon divacancies. <i>Physical Review B</i> , 2014, 89, .	3.2	52
49	Silicene on metal substrates: A first-principles study on the emergence of a hierarchy of honeycomb structures. <i>Applied Surface Science</i> , 2014, 291, 93-97.	6.1	24
50	Hydrogen- and oxygen-related effects in phthalocyanine crystals: formation of carrier traps and a change in the magnetic state. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3317.	2.8	9
51	Impurity-related effects in poly(3-hexylthiophene) crystals. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25557-25563.	2.8	13
52	Functionalization of Nanographenes: Metallic and Insulating Hexabenzocoronene Derivatives. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1347-1352.	3.1	9
53	First-principles study of siloxene and germoxene: stable conformations, electronic properties, and defects. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 285301.	1.8	11
54	Graphene: An impermeable or selectively permeable membrane for atomic species?. <i>Carbon</i> , 2014, 67, 58-63.	10.3	162

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55	Continuous transformations of C ₆₀ crystals: polymorphs, polymers, and the ideal strength of fullerenes. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 435303.	1.8	6
56	Introduction of nitrogen with controllable configuration into graphene via vacancies and edges. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14927.	10.3	39
57	Interaction of metal impurities with native oxygen defects in GeO ₂ . <i>Microelectronic Engineering</i> , 2013, 104, 37-41.	2.4	9
58	Formation and properties of graphane superstructures. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 085301.	1.8	6
59	Impurity-related degradation in a prototype organic photovoltaic material: A first-principles study. <i>Organic Electronics</i> , 2013, 14, 1242-1248.	2.6	10
60	Stability and electronic properties of ultrathin films of silicon and germanium. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9710.	2.8	65
61	Response of silicane and germanane to uni-axial compression: Superstructures, polymorph nano-ribbons, and extreme bending. <i>Journal of Chemical Physics</i> , 2013, 139, 124709.	3.0	26
62	Arrays of carbon nanoscrolls as deep subwavelength magnetic metamaterials. <i>Physical Review B</i> , 2013, 88, .	3.2	1
63	Defects and doping and their role in functionalizing graphene. <i>MRS Bulletin</i> , 2012, 37, 1187-1194.	3.5	61
64	Hydrogen uptake by graphene and nucleation of graphane. <i>Journal of Materials Science</i> , 2012, 47, 7571-7579.	3.7	22
65	Continuous transformation paths for the molecular crystals of the PCBM fullerene derivative. <i>Synthetic Metals</i> , 2012, 162, 2421-2427.	3.9	4
66	Structural evolution of single-layer films during deposition of silicon on silver: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 442001.	1.8	38
67	Molecular doping of graphene with ammonium groups. <i>Physical Review B</i> , 2012, 85, .	3.2	34
68	Intermolecular bridges and carrier traps in defective C ₆₀ crystals. <i>Physical Review B</i> , 2011, 84, .	3.2	15
69	Stability of Group-V Endohedral Fullerenes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3528-3533.	3.1	7
70	Impurity-related vibrational modes in a pentacene crystal. <i>EPJ Applied Physics</i> , 2011, 55, 23903.	0.7	1
71	Graphene nano-ribbon formation through hydrogen-induced unzipping of carbon nanotubes. <i>Applied Physics Letters</i> , 2011, 99, 143119.	3.3	34
72	Configurations, electronic properties, and diffusion of carbon and nitrogen dopants in rutile TiO ₂ : A density functional theory study. <i>Physical Review B</i> , 2011, 84, .	3.2	15

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73	Defect-related hysteresis in nanotube-based nano-electromechanical systems. <i>Nanoscale Research Letters</i> , 2011, 6, 245.	5.7	4
74	Defect formation and hysteretic inter-tube displacement in multi-wall carbon nanotubes. <i>Carbon</i> , 2011, 49, 581-586.	10.3	7
75	Defect formation and annihilation at interfaces. <i>Microelectronic Engineering</i> , 2011, 88, 395-398.	2.4	6
76	Ge-related impurities in high-k oxides: Carrier traps and interaction with native defects. <i>Microelectronic Engineering</i> , 2011, 88, 1432-1435.	2.4	5
77	Electronic and structural properties of TiB ₂ : Bulk, surface, and nanoscale effects. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 484-489.	3.5	20
78	Ge volatilization products in high-k gate dielectrics. <i>Microelectronic Engineering</i> , 2011, 88, 427-430.	2.4	14
79	(Invited) Defects and Impurities in Ge-Based Electronic Devices. <i>ECS Transactions</i> , 2011, 41, 47-52.	0.5	0
80	Excess of boron in TiB ₂ superhard thin films: a combined experimental and ab initio study. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 385402.	2.8	39
81	Atomic-Scale Mechanisms of Growth and Doping of Graphene Nano-Ribbons. <i>ECS Transactions</i> , 2011, 41, 71-75.	0.5	0
82	Atomic-scale mechanisms for diffusion of impurities in transition-metal nitrides. <i>Surface and Coatings Technology</i> , 2010, 204, 2089-2094.	4.8	10
83	Performance, reliability, radiation effects, and aging issues in microelectronics – From atomic-scale physics to engineering-level modeling. <i>Solid-State Electronics</i> , 2010, 54, 841-848.	1.4	24
84	Oxygen and water-related impurities in C ₆₀ crystals: A density-functional theory study. <i>Physical Review B</i> , 2010, 82, .	3.2	24
85	Configuration and conductance evolution of benzene-dithiol molecular junctions under elongation. <i>Physical Review B</i> , 2010, 82, .	3.2	38
86	Stability and dynamics of carbon and nitrogen dopants in anatase TiO ₂ : A density functional theory study. <i>Physical Review B</i> , 2010, 81, .	3.2	41
87	Hydrogen – dopant interactions in SiGe and strained Si. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	4
88	Migration of species in a prototype diffusion barrier: Cu, O, and H in TiN. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	33
89	Morphology and defect properties of the Ge – GeO ₂ interface. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	38
90	Performance, Reliability, Radiation Effects, and Aging Issues in Microelectronics - From Atomic-Scale Physics to Engineering-Level Modeling. <i>ECS Transactions</i> , 2009, 19, 319-337.	0.5	1

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91	Modification of the electronic properties of rubrene crystals by water and oxygen-related species. <i>Organic Electronics</i> , 2009, 10, 333-340.	2.6	21
92	Adatom complexes and self-healing mechanisms on graphene and single-wall carbon nanotubes. <i>Carbon</i> , 2009, 47, 901-908.	10.3	78
93	Adsorbate-Induced Defect Formation and Annihilation on Graphene and Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2009, 113, 941-944.	2.6	34
94	Performance, reliability, radiation effects, and aging issues in microelectronics - from atomic-scale physics to engineering-level modeling. , 2009, , .		2
95	Performance, reliability, radiation effects, and aging issues in microelectronics — from atomic-scale physics to engineering-level modeling. , 2009, , .		2
96	Design Considerations for CdTe Nanotetrapods as Electronic Devices. <i>Nano Letters</i> , 2009, 9, 3683-3688.	9.1	16
97	First-principles studies on organic electronic materials. <i>EPJ Applied Physics</i> , 2009, 46, 12511.	0.7	8
98	Probing the nano-scale with first-principles calculations. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 152, 109-113.	3.5	3
99	Vacancies, interstitials and their complexes in titanium carbide. <i>Acta Materialia</i> , 2008, 56, 2864-2871.	7.9	66
100	Trapping and release of impurities in TiN: A first-principles study. <i>Physical Review B</i> , 2008, 78, .	3.2	19
101	Reliability and radiation effects in IC technologies. , 2008, , .		37
102	Reactions of Water Molecules in Silica-Based Network Glasses. <i>Physical Review Letters</i> , 2008, 100, 105503.	7.8	38
103	Large impurity effects in rubrene crystals: First-principles calculations. <i>Physical Review B</i> , 2008, 78, .	3.2	37
104	Impact of Radiation-Induced Defects on Bipolar Device Operation. , 2008, , .		0
105	Defect Formation and Annihilation in Electronic Devices and the Role of Hydrogen. , 2008, , .		0
106	Stability and Dynamics of Frenkel Pairs in Si. <i>Physical Review Letters</i> , 2007, 99, 215503.	7.8	9
107	Intercalation of oxygen and water molecules in pentacene crystals: First-principles calculations. <i>Physical Review B</i> , 2007, 75, .	3.2	66
108	Role of N Defects on Thermally Induced Atomic-Scale Structural Changes in Transition-Metal Nitrides. <i>Physical Review Letters</i> , 2007, 99, 125503.	7.8	73

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109	Molecular dynamics simulations of stretched gold nanowires: The relative utility of different semiempirical potentials. <i>Journal of Chemical Physics</i> , 2007, 126, 144707.	3.0	57
110	First-principles studies of isomerization processes of silicon clusters. <i>Physical Review B</i> , 2007, 76, .	3.2	11
111	The Origin of Electron Mobility Enhancement in Strained MOSFETs. <i>IEEE Electron Device Letters</i> , 2007, 28, 1018-1020.	3.9	32
112	Hydrogen-Related Instabilities in MOS Devices Under Bias Temperature Stress. <i>IEEE Transactions on Device and Materials Reliability</i> , 2007, 7, 502-508.	2.0	40
113	Structure and interaction of point defects in transition-metal nitrides. <i>Physical Review B</i> , 2007, 76, .	3.2	78
114	Physical Mechanisms Responsible for the Abruptness of the Si-SiO ₂ Interface. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
115	Hydrogen effects in MOS devices. <i>Microelectronic Engineering</i> , 2007, 84, 2344-2349.	2.4	34
116	Engineering model of a biased metal-molecule-metal junction. <i>Journal of Computational Electronics</i> , 2007, 6, 425-430.	2.5	1
117	Effects of device aging on microelectronics radiation response and reliability. <i>Microelectronics Reliability</i> , 2007, 47, 1075-1085.	1.7	38
118	Hydrogen in MOSFETs – A primary agent of reliability issues. <i>Microelectronics Reliability</i> , 2007, 47, 903-911.	1.7	54
119	DEFECT-RELATED ISSUES IN HIGH-K DIELECTRICS. , 2006, , 189-202.		1
120	Selective Nontemplated Adsorption of Organic Molecules on Nanofacets and the Role of Bonding Patterns. <i>Physical Review Letters</i> , 2006, 97, 156105.	7.8	65
121	Encapsulation of Floating Carbon Nanotubes in SiO ₂ . <i>Physical Review Letters</i> , 2006, 97, 266805.	7.8	30
122	Thermal donor formation processes in silicon and the catalytic role of hydrogen. <i>Applied Physics Letters</i> , 2006, 88, 051916.	3.3	35
123	Si/SiO ₂ and SiC/SiO ₂ Interfaces for MOSFETs – Challenges and Advances. <i>Materials Science Forum</i> , 2006, 527-529, 935-948.	0.3	54
124	Reactions of excess hydrogen at a Si(111) surface with H termination: First-principles calculations. <i>Physical Review B</i> , 2006, 74, .	3.2	10
125	Effects of Switched-bias Annealing on Charge Trapping in HfO ₂ Gate Dielectrics. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 3636-3643.	2.0	39
126	Atomic-Scale Mechanisms for Low-NIEL Dopant-Type Dependent Damage in Si. <i>IEEE Transactions on Nuclear Science</i> , 2006, 53, 3621-3628.	2.0	14

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127	Oxygen Migration, Agglomeration, and Trapping: Key Factors for the Morphology of the Si-SiO ₂ Interface. <i>Physical Review Letters</i> , 2006, 97, 116101.	7.8	42
128	Hydrogenation and deuteration of the Si-SiO ₂ interface: Atomic-scale mechanisms and limitations. <i>Applied Physics Letters</i> , 2005, 86, 112107.	3.3	9
129	Relativistic Nth order muffin-tin orbital theory. <i>Physical Review B</i> , 2005, 71, .	3.2	0
130	Physical mechanisms of negative-bias temperature instability. <i>Applied Physics Letters</i> , 2005, 86, 142103.	3.3	113
131	Noncollinear magnetism of iron along the tetragonal Bain transformation. <i>Physical Review B</i> , 2005, 72, .	3.2	29
132	Atomic-scale mechanisms of selective adsorption and dimerization of pentacene on Si surfaces. <i>Applied Physics Letters</i> , 2005, 87, 233109.	3.3	23
133	Common origin for enhanced low-dose-rate sensitivity and bias temperature instability under negative bias. <i>IEEE Transactions on Nuclear Science</i> , 2005, 52, 2265-2271.	2.0	65
134	Migration, incorporation, and passivation reactions of molecular hydrogen at the Si-SiO ₂ interface. <i>Physical Review B</i> , 2004, 70, .	3.2	48
135	Negative bias-temperature instabilities in metal-oxide-silicon devices with SiO ₂ and SiO _x N _y /HfO ₂ gate dielectrics. <i>Applied Physics Letters</i> , 2004, 84, 4394-4396.	3.3	46
136	Dual role of fluorine at the Si-SiO ₂ interface. <i>Applied Physics Letters</i> , 2004, 85, 4950-4952.	3.3	22
137	Field-induced reactions of water molecules at Si-dielectric interfaces. <i>Materials Research Society Symposia Proceedings</i> , 2003, 786, 331.	0.1	3
138	Analytical Green's-function calculation of the interlayer exchange coupling in Fe/Cr multilayers. <i>Physical Review B</i> , 1997, 56, R11392-R11395.	3.2	12
139	Interlayer exchange coupling in Fe/Cr multilayers. <i>Physical Review B</i> , 1997, 55, 11586-11592.	3.2	28
140	Effects of Device Aging on Microelectronics Radiation Response and Reliability. , 0, , .		1
141	Addition of Diquat Enhances the Electron Mobility in Various Non-Fullerene Acceptor Molecules. <i>Advanced Functional Materials</i> , 0, , 2202954.	14.9	6