Feliciano Giustino

List of Publications by Year in Descending Order

164 papers	15,554 citations	54 h-index	124 g-index
179 ext. papers	19,264 ext. citations	7.5 avg, IF	7.33 L-index

#	Paper	IF	Citations
164	CeTaN3 and CeNbN3: Prospective Nitride Perovskites with Optimal Photovoltaic Band Gaps. *Chemistry of Materials*, **2022**, 34, 2107-2122	9.6	2
163	Dynamic Rashba-Dresselhaus Effect.. *Physical Review Letters*, **2021**, 127, 237601	7.4	1
162	Monolayer 1T-NbSe as a 2D-correlated magnetic insulator. *Science Advances*, **2021**, 7, eabi6339	14.3	6
161	Multiphonon diffuse scattering in solids from first principles: Application to layered crystals and two-dimensional materials. *Physical Review B*, **2021**, 104,	3.3	5
160	Efficient First-Principles Methodology for the Calculation of the All-Phonon Inelastic Scattering in Solids. *Physical Review Letters*, **2021**, 127, 207401	7.4	5
159	First-principles predictions of Hall and drift mobilities in semiconductors. *Physical Review Research*, **2021**, 3,	3.9	5
158	GW band structure of monolayer MoS2 using the SternheimerGW method and effect of dielectric environment. *Physical Review B*, **2021**, 103,	3.3	1
157	Exciton-Phonon Interactions in Monolayer Germanium Selenide from First Principles. *Journal of Physical Chemistry Letters*, **2021**, 12, 3802-3808	6.4	4
156	Limits to Electrical Mobility in Lead-Halide Perovskite Semiconductors. *Journal of Physical Chemistry Letters*, **2021**, 12, 3607-3617	6.4	14
155	Phonon-Limited Mobility and Electron-Phonon Coupling in Lead-Free Halide Double Perovskites. *Journal of Physical Chemistry Letters*, **2021**, 12, 4474-4482	6.4	12
154	Crystallographic, Optical, and Electronic Properties of the Cs2AgBi1−xInxBr6 Double Perovskite: Understanding the Fundamental Photovoltaic Efficiency Challenges. *ACS Energy Letters*, **2021**, 6, 1073-1081	20.1	10
153	Electronic Structure and Electron-Transport Properties of Three Metal Hexacyanoferrates. *Chemistry of Materials*, **2021**, 33, 7067-7074	9.6	3
152	First-principles study of electron transport in ScN. *Physical Review B*, **2021**, 104,	3.3	1
151	Ultrafast photo-induced phonon hardening due to Pauli blocking in MAPbI3 single-crystal and polycrystalline perovskites. *JPhys Materials*, **2021**, 4, 044017	4.2	0
150	Ruddlesden-Popper-Phase Hybrid Halide Perovskite/Small-Molecule Organic Blend Memory Transistors. *Advanced Materials*, **2021**, 33, e2003137	24	17
149	Spin waves in metallic iron and nickel measured by soft x-ray resonant inelastic scattering. *Physical Review B*, **2020**, 102,	3.3	3
148	Superconducting properties of MoTe2 from ab initio anisotropic Migdal-Eliashberg theory. *Physical Review B*, **2020**, 101,	3.3	3

147	Many-body renormalization of the electron effective mass of InSe. *Physical Review B*, **2020**, 101,	3.3	3
146	Electron-polaron dichotomy of charge carriers in perovskite oxides. *Communications Physics*, **2020**, 3,	5.4	7
145	Theory of the special displacement method for electronic structure calculations at finite temperature. *Physical Review Research*, **2020**, 2,	3.9	23
144	Structural, electronic, elastic, power, and transport properties of β-Ga2O3 from first principles. *Physical Review Research*, **2020**, 2,	3.9	20
143	Many-Body Calculations of Plasmon and Phonon Satellites in Angle-Resolved Photoelectron Spectra Using the Cumulant Expansion Approach **2020**, 341-365		
142	Hybrid Halide Perovskites: Fundamental Theory and Materials Design **2020**, 295-324		2
141	First-principles calculations of charge carrier mobility and conductivity in bulk semiconductors and two-dimensional materials. *Reports on Progress in Physics*, **2020**, 83, 036501	14.4	71
140	Theory and Computation of Hall Scattering Factor in Graphene. *Nano Letters*, **2020**, 20, 8861-8865	11.5	2
139	Intrinsic quantum confinement in formamidinium lead triiodide perovskite. *Nature Materials*, **2020**, 19, 1201-1206	27	10
138	SternheimerGW: A program for calculating GW quasiparticle band structures and spectral functions without unoccupied states. *Computer Physics Communications*, **2020**, 247, 106856	4.2	7
137	The 2021 quantum materials roadmap. *JPhys Materials*, **2020**, 3, 042006	4.2	48
136	Hole mobility of strained GaN from first principles. *Physical Review B*, **2019**, 100,	3.3	38
135	Route to High Hole Mobility in GaN via Reversal of Crystal-Field Splitting. *Physical Review Letters*, **2019**, 123, 096602	7.4	31
134	Ab initio theory of polarons: Formalism and applications. *Physical Review B*, **2019**, 99,	3.3	32
133	Polarons from First Principles, without Supercells. *Physical Review Letters*, **2019**, 122, 246403	7.4	32
132	Manipulating surface magnetic order in iron telluride. *Science Advances*, **2019**, 5, eaav3478	14.3	9
131	Oxide Analogs of Halide Perovskites and the New Semiconductor BaAgIO. *Journal of Physical Chemistry Letters*, **2019**, 10, 1722-1728	6.4	18
130	Dimensional Crossover in the Carrier Mobility of Two-Dimensional Semiconductors: The Case of InSe. *Nano Letters*, **2019**, 19, 1774-1781	11.5	34

129	Coexistence of Superconductivity with Enhanced Charge Density Wave Order in the Two-Dimensional Limit of TaSe. *Journal of Physical Chemistry Letters*, **2019**, 10, 4076-4081	6.4	20
128	Trellises of Molecular Oxygen on Anatase TiO2(101). *Journal of Physical Chemistry C*, **2019**, 123, 26170-26177	3.7	1
127	Slot-Die-Printed Two-Dimensional ZrS Charge Transport Layer for Perovskite Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 48021-48028	9.5	10
126	Origin of Low Carrier Mobilities in Halide Perovskites. *ACS Energy Letters*, **2019**, 4, 456-463	20.1	79
125	Universal Scaling of Intrinsic Resistivity in Two-Dimensional Metallic Borophene. *Angewandte Chemie - International Edition*, **2018**, 57, 4585-4589	16.4	18
124	Universal Scaling of Intrinsic Resistivity in Two-Dimensional Metallic Borophene. *Angewandte Chemie*, **2018**, 130, 4675-4679	3.6	4
123	Electron-plasmon and electron-phonon satellites in the angle-resolved photoelectron spectra of n-doped anatase TiO2. *Physical Review B*, **2018**, 97,	3.3	14
122	High-Efficiency Fullerene Solar Cells Enabled by a Spontaneously Formed Mesostructured CuSCN-Nanowire Heterointerface. *Advanced Science*, **2018**, 5, 1700980	13.6	15
121	Bimolecular recombination in methylammonium lead triiodide perovskite is an inverse absorption process. *Nature Communications*, **2018**, 9, 293	17.4	175
120	Ab initio calculation of spin fluctuation spectra using time-dependent density functional perturbation theory, plane waves, and pseudopotentials. *Physical Review B*, **2018**, 97,	3.3	13
119	Oxygen redox chemistry without excess alkali-metal ions in Na[MgMn]O. *Nature Chemistry*, **2018**, 10, 288-295	17.6	281
118	Towards predictive many-body calculations of phonon-limited carrier mobilities in semiconductors. *Physical Review B*, **2018**, 97,	3.3	128
117	Graphene Oxide/Perovskite Interfaces For Photovoltaics. *Journal of Physical Chemistry C*, **2018**, 122, 16715-16726	3.7	26
116	Cubic or Orthorhombic? Revealing the Crystal Structure of Metastable Black-Phase CsPbI3 by Theory and Experiment. *ACS Energy Letters*, **2018**, 3, 1787-1794	20.1	292
115	The geometric blueprint of perovskites. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 5397-5402	11.5	70
114	Quasiparticle GW band structures and Fermi surfaces of bulk and monolayer NbS2. *Physical Review B*, **2018**, 98,	3.3	10
113	Carrier Lifetimes and Polaronic Mass Enhancement in the Hybrid Halide Perovskite CH_{3}NH_{3}PbI_{3} from Multiphonon Fröhlich Coupling. *Physical Review Letters*, **2018**, 121, 086402	7.4	48
112	Hybrid Halide Perovskites: Fundamental Theory and Materials Design **2018**, 1-30		4

111	Surface properties of lead-free halide double perovskites: Possible visible-light photo-catalysts for water splitting. *Applied Physics Letters*, **2018**, 112, 243901	3.4	34
110	Crossover from lattice to plasmonic polarons of a spin-polarised electron gas in ferromagnetic EuO. *Nature Communications*, **2018**, 9, 2305	17.4	19
109	Phase Diagrams and Stability of Lead-Free Halide Double Perovskites Cs2BB?X6: B = Sb and Bi, B? = Cu, Ag, and Au, and X = Cl, Br, and I. *Journal of Physical Chemistry C*, **2018**, 122, 158-170	3.8	91
108	Halide Perovskites: Interfaces Between Graphene-Related Materials and MAPbI3: Insights from First-Principles (Adv. Mater. Interfaces 22/2018). *Advanced Materials Interfaces*, **2018**, 5, 1870110	4.6	1
107	Many-Body Calculations of Plasmon and Phonon Satellites in Angle-Resolved Photoelectron Spectra Using the Cumulant Expansion Approach **2018**, 1-25		
106	Raman Spectrum of the Organic□horganic Halide Perovskite CH3NH3PbI3 from First Principles and High-Resolution Low-Temperature Raman Measurements. *Journal of Physical Chemistry C*, **2018**, 122, 21703-21717	3.8	53
105	Atomic Structure of Water Monolayer on Anatase TiO2(101) Surface. *Journal of Physical Chemistry C* , **2018**, 122, 11954-11960	3.8	12
104	CsInAgCl: A New Lead-Free Halide Double Perovskite with Direct Band Gap. *Journal of Physical Chemistry Letters*, **2017**, 8, 772-778	6.4	494
103	Electron-phonon interactions from first principles. *Reviews of Modern Physics*, **2017**, 89,	40.5	538
102	Solution-Processed Cesium Hexabromopalladate(IV), CsPdBr, for Optoelectronic Applications. *Journal of the American Chemical Society*, **2017**, 139, 6030-6033	16.4	134
101	Single-Molecule Vibrational Spectroscopy of H2O on Anatase TiO2(101). *Journal of Physical Chemistry C*, **2017**, 121, 1182-1187	3.8	21
100	Advanced capabilities for materials modelling with Quantum ESPRESSO. *Journal of Physics Condensed Matter*, **2017**, 29, 465901	1.8	2275
99	Origin of Superconductivity and Latent Charge Density Wave in NbS_{2}. *Physical Review Letters*, **2017**, 119, 087003	7.4	66
98	Route to Stable Lead-Free Double Perovskites with the Electronic Structure of CHNHPbI: A Case for Mixed-Cation [Cs/CHNH/CH(NH)]InBiBr. *Journal of Physical Chemistry Letters*, **2017**, 8, 3917-3924	6.4	71
97	Van der Waals Interactions and Anharmonicity in the Lattice Vibrations, Dielectric Constants, Effective Charges, and Infrared Spectra of the Organic□horganic Halide Perovskite CH3NH3PbI3. *Journal of Physical Chemistry C*, **2017**, 121, 18459-18471	3.8	22
96	Origin of the crossover from polarons to Fermi liquids in transition metal oxides. *Nature Communications*, **2017**, 8, 15769	17.4	79
95	Nonadiabatic Kohn Anomaly in Heavily Boron-Doped Diamond. *Physical Review Letters*, **2017**, 119, 017001	7.4	25
94	One-shot calculation of temperature-dependent optical spectra and phonon-induced band-gap renormalization. *Physical Review B*, **2016**, 94,	3.3	77

93	EPW: Electron–phonon coupling, transport and superconducting properties using maximally localized Wannier functions. *Computer Physics Communications*, **2016**, 209, 116-133	4.2	433
92	Electron-phonon coupling in hybrid lead halide perovskites. *Nature Communications*, **2016**, 7,	17.4	668
91	Toward Lead-Free Perovskite Solar Cells. *ACS Energy Letters*, **2016**, 1, 1233-1240	20.1	636
90	Perovskite-perovskite tandem photovoltaics with optimized band gaps. *Science*, **2016**, 354, 861-865	33.3	865
89	Band Gaps of the Lead-Free Halide Double Perovskites Cs2BiAgCl6 and Cs2BiAgBr6 from Theory and Experiment. *Journal of Physical Chemistry Letters*, **2016**, 7, 2579-85	6.4	395
88	Confinement Effects in Low-Dimensional Lead Iodide Perovskite Hybrids. *Chemistry of Materials*, **2016**, 28, 4554-4562	9.6	203
87	Energy-level alignment and open-circuit voltage at graphene/polymer interfaces: theory and experiment. *2D Materials*, **2016**, 3, 015003	5.9	7
86	Computational Screening of Homovalent Lead Substitution in Organic–Inorganic Halide Perovskites. *Journal of Physical Chemistry C*, **2016**, 120, 166-173	3.8	162
85	Lead-Free Halide Double Perovskites via Heterovalent Substitution of Noble Metals. *Journal of Physical Chemistry Letters*, **2016**, 7, 1254-9	6.4	567
84	Electron-phonon interaction and pairing mechanism in superconducting Ca-intercalated bilayer graphene. *Scientific Reports*, **2016**, 6, 21414	4.9	49
83	The GW plus cumulant method and plasmonic polarons: application to the homogeneous electron gas*. *European Physical Journal B*, **2016**, 89, 1	1.2	14
82	Modelling graphene quantum dot functionalization via ethylene-dinitrobenzoyl. *Applied Physics Letters*, **2016**, 108, 123902	3.4	1
81	Theory of electron-plasmon coupling in semiconductors. *Physical Review B*, **2016**, 94,	3.3	29
80	On the combined use of GW approximation and cumulant expansion in the calculations of quasiparticle spectra: The paradigm of Si valence bands. *Physical Review B*, **2016**, 94,	3.3	28
79	Ferroelectric Graphene-Perovskite Interfaces. *Journal of Physical Chemistry Letters*, **2015**, 6, 2496-502	6.4	60
78	Band structures of plasmonic polarons. *Physical Review Letters*, **2015**, 114, 146404	7.4	50
77	Vibrational Properties of the Organic–Inorganic Halide Perovskite CH3NH3PbI3 from Theory and Experiment: Factor Group Analysis, First-Principles Calculations, and Low-Temperature Infrared Spectra. *Journal of Physical Chemistry C*, **2015**, 119, 25703-25718	3.8	220
76	Graphene-based technologies for energy applications, challenges and perspectives. *2D Materials*, **2015**, 2, 030204	5.9	62

75	GW Band Structures and Carrier Effective Masses of CH3NH3PbI3 and Hypothetical Perovskites of the Type APbI3: A = NH4, PH4, AsH4, and SbH4. *Journal of Physical Chemistry C*, **2015**, 119, 25209-25219	3.8	113
74	Excitons in one-dimensional van der Waals materials: Sb2S3 nanoribbons. *Physical Review B*, **2015**, 92,	3.3	21
73	Fröhlich Electron-Phonon Vertex from First Principles. *Physical Review Letters*, **2015**, 115, 176401	7.4	165
72	Stochastic Approach to Phonon-Assisted Optical Absorption. *Physical Review Letters*, **2015**, 115, 177401	7.4	63
71	Spectral fingerprints of electron-plasmon coupling. *Physical Review B*, **2015**, 92,	3.3	19
70	Theory of Electromagnons in CuO. *Physical Review Letters*, **2015**, 114, 197201	7.4	13
69	First-principles study of structurally modulated multiferroic CaMn7O12. *Physical Review B*, **2015**, 91,	3.3	12
68	Two-gap superconductivity in heavily n-doped graphene: Ab initio Migdal-Eliashberg theory. *Physical Review B*, **2014**, 90,	3.3	51
67	Unified theory of electron-phonon renormalization and phonon-assisted optical absorption. *Journal of Physics Condensed Matter*, **2014**, 26, 365503	1.8	42
66	CaBaCo4O7: A ferrimagnetic pyroelectric. *Physical Review B*, **2014**, 90,	3.3	32
65	Atomic-scale observation of multiconformational binding and energy level alignment of ruthenium-based photosensitizers on TiO2 anatase. *Nano Letters*, **2014**, 14, 563-9	11.5	60
64	First-principles study of multiferroic RbFe(MoO4)2. *Physical Review B*, **2014**, 90,	3.3	5
63	Structure of a Water Monolayer on the Anatase TiO2(101) Surface. *Physical Review Applied*, **2014**, 2,	4.3	34
62	TiO2 anatase with a bandgap in the visible region. *Nano Letters*, **2014**, 14, 6533-8	11.5	384
61	Time-dependent density functional theory using atomic orbitals and the self-consistent Sternheimer equation. *Physical Review B*, **2014**, 89,	3.3	14
60	GW quasiparticle band gap of the hybrid organic-inorganic perovskite CH3NH3PbI3: Effect of spin-orbit interaction, semicore electrons, and self-consistency. *Physical Review B*, **2014**, 90,	3.3	101
59	Steric engineering of metal-halide perovskites with tunable optical band gaps. *Nature Communications*, **2014**, 5, 5757	17.4	605
58	Linear optical response of finite systems using multishift linear system solvers. *Journal of Chemical Physics*, **2014**, 141, 044117	3.9	13

57	GW quasiparticle band structures of stibnite, antimonselite, bismuthinite, and guanajuatite. *Physical Review B*, **2013**, 87,	3.3	142
56	Anisotropic Migdal-Eliashberg theory using Wannier functions. *Physical Review B*, **2013**, 87,	3.3	124
55	Ab initio Sternheimer-GW method for quasiparticle calculations using plane waves. *Physical Review B*, **2013**, 88,	3.3	35
54	Quantum nuclear dynamics in the photophysics of diamondoids. *Nature Communications*, **2013**, 4, 2006	17.4	76
53	Strong carrier lifetime enhancement in GaAs nanowires coated with semiconducting polymer. *Nano Letters*, **2012**, 12, 6293-301	11.5	52
52	Ultrafast entangling gates between nuclear spins using photoexcited triplet states. *Nature Physics*, **2012**, 8, 596-600	16.2	39
51	Performance of local orbital basis sets in the self-consistent Sternheimer method for dielectric matrices of extended systems. *European Physical Journal B*, **2012**, 85, 1	1.2	6
50	Quantitative analysis of valence photoemission spectra and quasiparticle excitations at chromophore-semiconductor interfaces. *Physical Review Letters*, **2012**, 109, 116801	7.4	24
49	Dielectric screening in extended systems using the self-consistent Sternheimer equation and localized basis sets. *Physical Review B*, **2012**, 85,	3.3	12
48	Inelastic carrier lifetime in bilayer graphene. *Applied Physics Letters*, **2012**, 100, 032106	3.4	4
47	GW quasiparticle bandgaps of anatase TiO2 starting from DFT + U. *Journal of Physics Condensed Matter*, **2012**, 24, 202201	1.8	52
46	Ideal Energy-Level Alignment at the ZnO/P3HT Photovoltaic Interface. *Advanced Functional Materials*, **2012**, 22, 5089-5095	15.6	53
45	Dislocation-driven deformations in graphene. *Science*, **2012**, 337, 209-12	33.3	295
44	First-principles investigation of hyperfine interactions for nuclear spin entanglement in photoexcited fullerenes. *Physical Review B*, **2012**, 85,	3.3	9
43	Modeling the role of the fluorine dopant in the magnetic phase diagram of LaFeAsO1⊠Fx superconductors. *Physical Review B*, **2012**, 85,	3.3	1
42	Structural and Electronic Properties of Semiconductor-Sensitized Solar-Cell Interfaces. *Advanced Functional Materials*, **2011**, 21, 4663-4667	15.6	110
41	Solar Cells: Structural and Electronic Properties of Semiconductor-Sensitized Solar-Cell Interfaces (Adv. Funct. Mater. 24/2011). *Advanced Functional Materials*, **2011**, 21, 4798-4798	15.6	1
40	O 1s core-level shifts at the anatase TiO2(101)/N3 photovoltaic interface: Signature of H-bonded supramolecular assembly. *Physical Review B*, **2011**, 84,	3.3	22

39	Publisher's Note: First-Principles Prediction of Doped Graphane as a High-Temperature Electron-Phonon Superconductor [Phys. Rev. Lett. 105, 037002 (2010)]. *Physical Review Letters*, **2010**, 105,	7.4	5
38	Entangling remote nuclear spins linked by a chromophore. *Physical Review Letters*, **2010**, 104, 200501	7.4	15
37	GW method with the self-consistent Sternheimer equation. *Physical Review B*, **2010**, 81,	3.3	98
36	First-principles prediction of doped graphane as a high-temperature electron-phonon superconductor. *Physical Review Letters*, **2010**, 105, 037002	7.4	140
35	Electron-phonon renormalization of the direct band gap of diamond. *Physical Review Letters*, **2010**, 105, 265501	7.4	192
34	EPW: A program for calculating the electron–phonon coupling using maximally localized Wannier functions. *Computer Physics Communications*, **2010**, 181, 2140-2148	4.2	225
33	Role of fluorine in the iron pnictides: phonon softening and effective hole doping. *Physical Review Letters*, **2009**, 102, 147003	7.4	15
32	Angle-resolved photoemission spectra of graphene from first-principles calculations. *Nano Letters*, **2009**, 9, 4234-9	11.5	93
31	First-principles study of electron linewidths in graphene. *Physical Review Letters*, **2009**, 102, 076803	7.4	65
30	Origin of superconductivity in boron-doped silicon carbide from first principles. *Physical Review B*, **2009**, 79,	3.3	26
29	Small phonon contribution to the photoemission kink in the copper oxide superconductors. *Nature*, **2008**, 452, 975-8	50.4	135
28	Electron-phonon interactions in graphene, bilayer graphene, and graphite. *Nano Letters*, **2008**, 8, 4229-33	11.5	138
27	First-principles theory of infrared absorption spectra at surfaces and interfaces: Application to the Si(100):H2O surface. *Physical Review B*, **2008**, 78,	3.3	6
26	First-principles study of superconductivity and Fermi-surface nesting in ultrahard transition metal carbides. *Physical Review B*, **2008**, 77,	3.3	24
25	Van Hove singularity and apparent anisotropy in the electron-phonon interaction in graphene. *Physical Review B*, **2008**, 77,	3.3	46
24	Band offsets at the Si/SiO2 interface from many-body perturbation theory. *Physical Review Letters*, **2008**, 100, 186401	7.4	141
23	Electron-phonon interaction using Wannier functions. *Physical Review B*, **2007**, 76,	3.3	425
22	Structural and electronic properties of an abrupt 4H-SiC(0001)-SiO2 interface model: Classical molecular dynamics simulations and density functional calculations. *Physical Review B*, **2007**, 76,	3.3	55

21	Velocity renormalization and carrier lifetime in graphene from the electron-phonon interaction. *Physical Review Letters*, **2007**, 99, 086804	7.4	162
20	Proton-induced fixed positive charge at the Si(100)-SiO2 interface. *Physical Review Letters*, **2007**, 99, 126102	7.4	20
19	Electron-phonon interaction via electronic and lattice Wannier functions: superconductivity in boron-doped diamond reexamined. *Physical Review Letters*, **2007**, 98, 047005	7.4	122
18	Mixed Wannier-Bloch functions for electrons and phonons in periodic systems. *Physical Review Letters*, **2006**, 96, 216403	7.4	17
17	DIELECTRIC AND INFRARED PROPERTIES OF ULTRATHIN SiO2 LAYERS ON Si(100). *NATO Science Series Series II, Mathematics, Physics and Chemistry*, **2006**, 385-396		1
16	Theory of atomic-scale dielectric permittivity at insulator interfaces. *Physical Review B*, **2005**, 71,	3.3	108
15	Equivalent oxide thickness of a thin oxide interlayer in gate insulator stacks on silicon. *Applied Physics Letters*, **2005**, 86, 192901	3.4	21
14	Atomistic models of the Si(100)□SiO2interface: structural, electronic and dielectric properties. *Journal of Physics Condensed Matter*, **2005**, 17, S2065-S2074	1.8	41
13	Infrared properties of ultrathin oxides on Si(100). *Microelectronic Engineering*, **2005**, 80, 420-423	2.5	7
12	Electronic and dielectric properties of a suboxide interlayer at the silicon□oxide interface in MOS devices. *Surface Science*, **2005**, 586, 183-191	1.8	38
11	Abrupt model interface for the 4H(1000)SiC-SiO2 interface. *Microelectronic Engineering*, **2005**, 80, 38-41	2.5	20
10	Infrared spectra at surfaces and interfaces from first principles: evolution of the spectra across the Si(100)-SiO2 interface. *Physical Review Letters*, **2005**, 95, 187402	7.4	48
9	Electronic Structure at Realistic Si(100)-SiO2Interfaces. *Japanese Journal of Applied Physics*, **2004**, 43, 7895-7898	1.4	6
8	Dielectric effect of a thin SiO2 interlayer at the interface between silicon and high-k oxides. *Microelectronic Engineering*, **2004**, 72, 299-303	2.5	24
7	Atomic-scale investigation of the dielectric screening at the interface between silicon and its oxide. *Materials Research Society Symposia Proceedings*, **2003**, 786, 511		
6	Dielectric discontinuity at interfaces in the atomic-scale limit: permittivity of ultrathin oxide films on silicon. *Physical Review Letters*, **2003**, 91, 267601	7.4	71
5	Model for high-temperature radiation effects in n-p-n bipolar-junction transistors. *IEEE Transactions on Nuclear Science*, **2002**, 49, 2990-2997	1.7	3
4	Modeling of Si 2p core-level shifts at Si□(ZrO2)x(SiO2)1□ interfaces. *Applied Physics Letters*, **2002**, 81, 4233-4235	3.4	17

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3	Dose and dose-rate effects on NPN bipolar junction transistors irradiated at high temperature. *IEEE Transactions on Nuclear Science*, **2002**, 49, 1474-1479	1.7	8
2	Dose and dose rate effects on NPN bipolar junction transistors irradiated at high temperature		1
1	Quasiparticle Band Structure and Phonon-Induced Band Gap Renormalization of the Lead-Free Halide Double Perovskite Cs2InAgCl6. *Journal of Physical Chemistry C*,	3.8	5