

Andrea Migliori

List of Publications by Year in descending order

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108
papers

2,931
citations

201385

27
h-index

189595

50
g-index

112
all docs

112
docs citations

112
times ranked

4080
citing authors

#	ARTICLE	IF	CITATIONS
1	Size-Dependent Extinction Coefficients of PbS Quantum Dots. Journal of the American Chemical Society, 2006, 128, 10337-10346.	6.6	406
2	Conversion of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid over Au-based catalysts: Optimization of active phase and metal-support interaction. Applied Catalysis B: Environmental, 2015, 163, 520-530.	10.8	177
3	Large-scale Synthesis of Ultrathin Bi ₂ S ₃ Necklace Nanowires. Angewandte Chemie - International Edition, 2008, 47, 3814-3817.	7.2	138
4	Shape-Controlled Bi ₂ S ₃ Nanocrystals and Their Plasma Polymerization into Flexible Films. Advanced Materials, 2006, 18, 2189-2194.	11.1	122
5	Room Temperature Polymorphism in Metastable BiMnO ₃ Prepared by High-Pressure Synthesis. Chemistry of Materials, 2005, 17, 1765-1773.	3.2	91
6	High-Temperature Polymorphism in Metastable BiMnO ₃ . Chemistry of Materials, 2005, 17, 6457-6467.	3.2	80
7	Electron holography of long-range electric and magnetic fields. Journal of Applied Physics, 1991, 69, 1835-1842.	1.1	73
8	Structure of Ti ₂ P solved by three-dimensional electron diffraction data collected with the precession technique and high-resolution electron microscopy. Acta Crystallographica Section A: Foundations and Advances, 2003, 59, 117-126.	0.3	71
9	Hydrogen Desorption Below 150 °C in MgH ₂ -TiH ₂ Composite Nanoparticles: Equilibrium and Kinetic Properties. Journal of Physical Chemistry C, 2017, 121, 11166-11177.	1.5	68
10	Different quantum behavior of the E ₁ and E ₂ spectral structures in Ge nanocrystals. Physical Review B, 1996, 53, 6992-6995.	1.1	64
11	Extreme undercooling (down to 90K) of liquid metal nanoparticles. Applied Physics Letters, 2006, 89, 033123.	1.5	59
12	Structural and gas-sensing characterization of tungsten oxide nanorods and nanoparticles. Sensors and Actuators B: Chemical, 2011, 153, 340-346.	4.0	53
13	Synthesis and characterization of multiferroic $\text{BiMn}_{7/4}\text{Mn}_{1/4}$. Physical Review B, 2009, 79, ...	1.1	45
14	Structure and local dipole of Si interface layers in AlAs-GaAs heterostructures. Physical Review B, 1992, 46, 6834-6845.	1.1	44
15	Composition and structure of Si-Ge layers produced by ion implantation and laser melting. Journal of Materials Research, 1991, 6, 2120-2126.	1.2	42
16	Secondary electron emission from diamond: Physical modeling and application to scanning electron microscopy. Journal of Applied Physics, 2001, 89, 689-696.	1.1	40
17	Metallic versus Covalent Bonding: Ga Nanoparticles as a Case Study. Journal of the American Chemical Society, 2007, 129, 8026-8033.	6.6	37
18	Computer simulations of electron holographic contour maps of superconducting flux lines II. The case of tilted specimens. Ultramicroscopy, 1993, 49, 87-94.	0.8	35

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19	Effect of different heat-treatment routes on the impact properties of an additively manufactured AlSi10Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140671.	2.6	34
20	Charge Order and Tilt Modulation in Multiferroic $K_xMn_{1-x}F_3$ (0.4 <x< 0.6) Transition Metal Fluorides with Tetragonal Tungsten Bronze Structure. <i>Chemistry of Materials</i> , 2004, 16, 3007-3019.	3.2	33
21	Building Materials from Colloidal Nanocrystal Arrays: Preventing Crack Formation during Ligand Removal by Controlling Structure and Solvation. <i>Advanced Materials</i> , 2016, 28, 8892-8899.	11.1	33
22	Interfaces within biphasic nanoparticles give a boost to magnesium-based hydrogen storage. <i>Nano Energy</i> , 2020, 72, 104654.	8.2	31
23	Making Agriculture More Sustainable: An Environmentally Friendly Approach to the Synthesis of Lignin@Cu Pesticides. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14886-14895.	3.2	30
24	Structural modulation and superconducting properties in (Bi, Pb) $2Sr_2$ (Y, Ca) Cu_2O_z . <i>Physica C: Superconductivity and Its Applications</i> , 1992, 197, 283-298.	0.6	29
25	Antireflecting passivating dielectric films on crystalline silicon solar cells for space applications. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1115-1122.	3.0	29
26	Binderless WC with high strength and toughness up to 1500 °C. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2287-2294.	2.8	29
27	QED V 1.0: a software package for quantitative electron diffraction data treatment. <i>Ultramicroscopy</i> , 2000, 81, 57-65.	0.8	28
28	Mapping of microelectrostatic fields by means of electron holography: Theoretical and experimental results. <i>Physical Review A</i> , 1989, 40, 3136-3146.	1.0	27
29	Oxygen order and charge-transfer mechanism in Zn-doped $YBa_2Cu_3O_{7-x}$. <i>Physical Review B</i> , 1993, 48, 1192-1195.	1.1	27
30	A total scattering Debye function analysis study of faulted Pt nanocrystals embedded in a porous matrix. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, 632-644.	0.0	27
31	Mercaptosilane-Passivated $CuInS_2$ Quantum Dots for Luminescence Thermometry and Luminescent Labels. <i>ACS Applied Nano Materials</i> , 2019, 2, 2426-2436.	2.4	26
32	On the resolution of semiconductor multilayers with a scanning electron microscope. <i>Ultramicroscopy</i> , 1995, 60, 229-239.	0.8	25
33	Morphological characterization of poly(3-octylthiophene):plasticizer:C60 blends. <i>Thin Solid Films</i> , 2002, 403-404, 489-494.	0.8	25
34	Homojunction and heterojunction silicon solar cells deposited by low temperature high frequency plasma enhanced chemical vapour deposition. <i>Thin Solid Films</i> , 2002, 405, 248-255.	0.8	25
35	Structural properties and multiferroic phase diagram of $K_{x-1}Mn_xMn_{1-x}F_3$. <i>Physical Review B</i> , 2008, 78, .	1.1	25
36	Facile synthesis of pure non-monoclinic zirconia nanoparticles and their catalytic activity investigations for Knoevenagel condensation. <i>RSC Advances</i> , 2013, 3, 22353.	1.7	25

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37	ly activated magnetization reversal in bulk $\text{BiFe}_{0.5}\text{MnO}$	1.1	24
38	Structure determination of $\text{I}^{\dagger}\text{-Bi}_8\text{Pb}_5\text{O}_{17}$ by electron and powder X-ray diffraction. Ultramicroscopy, 2000, 84, 133-142.	0.8	22
39	Flux-Assisted Self-Assembly of Monodisperse Colloids. Langmuir, 2003, 19, 7944-7947.	1.6	22
40	Insight into the premelting and melting processes of metal nanoparticles through capacitance measurements. Applied Physics Letters, 2003, 82, 1461-1463.	1.5	22
41	Template evaporation method for controlling anatase nanocrystal size in ordered macroporous TiO_2 . Journal of Colloid and Interface Science, 2005, 290, 201-207.	5.0	22
42	Preparation of the Nd-123 phase in air with as high as 95 K. Superconductor Science and Technology, 1997, 10, 347-355.	1.8	20
43	Electrosynthesis of Ni/Al layered double hydroxide and reduced graphene oxide composites for the development of hybrid capacitors. Electrochimica Acta, 2021, 365, 137294.	2.6	19
44	Fundamental properties of lead and tin nanocrystals in a dielectric matrix. Superlattices and Microstructures, 1995, 17, 47-49.	1.4	18
45	Comparison of spatial resolutions obtained with different signal components in scanning electron microscopy. Ultramicroscopy, 1996, 65, 23-30.	0.8	18
46	Open circuit voltage in homojunction and heterojunction silicon solar cells grown by VHF-PECVD. Journal of Non-Crystalline Solids, 2002, 299-302, 1203-1207.	1.5	18
47	Spontaneous Phase Fluctuations of Nanoparticles of Lead in a Silicon Oxide Matrix. Europhysics Letters, 1994, 26, 265-270.	0.7	17
48	The early stages of the self-assembly process of polystyrene beads for photonic applications. Synthetic Metals, 2003, 139, 667-670.	2.1	16
49	Silicon heterojunction solar cells with p nanocrystalline thin emitter on monocrystalline substrate. Thin Solid Films, 2004, 451-452, 350-354.	0.8	15
50	Polymorphism and Multiferroicity in $\text{Bi}_{1-x/3}(\text{MnIII})_3(\text{MnIII}_{4-x}\text{MnIV}_x)\text{O}_{12}$. Chemistry of Materials, 2011, 23, 3628-3635.	3.2	15
51	Interpretation of Holographic Contour Maps of Reverse Biased p-n Junctions. Microscopy Microanalysis Microstructures, 1995, 6, 647-657.	0.4	15
52	Computer simulations of electron holographic contour maps of superconducting flux lines. Ultramicroscopy, 1992, 41, 169-179.	0.8	14
53	Optical and structural analysis of degraded high power InGaAlAs/AlGaAs lasers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 66, 209-214.	1.7	14
54	Spatial resolution and energy filtering of backscattered electron images in scanning electron microscopy. Ultramicroscopy, 2001, 88, 139-150.	0.8	14

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55	Synthesis, single crystal growth and structural determination of new copper oxycarbonates $A_4CuM(CO_3)_2O_4$, A = Sr, Ba, M = Li, Na, Ca. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 247, 359-370.	0.6	13
56	Ba δ -Ca δ -Cu oxycarbonate thin films, prepared by pulsed laser deposition: structure, growth mechanism and superconducting properties. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 312, 225-232.	0.6	13
57	Laser induced epitaxial regrowth of Si $_{1-x}$ Ge $_x$ /Si layers produced by Ge ion implantation. <i>Applied Surface Science</i> , 1989, 43, 158-164.	3.1	12
58	Si-GaAs(001) superlattice structure. <i>Journal of Crystal Growth</i> , 1993, 127, 121-125.	0.7	12
59	Synthesis, crystal growth and structural characterisation of barium-copper oxycarbonates $Ba_2M_xCu_{2-x-y}(CO_3)_yO_{2+1}$ (M \rightarrow Cu, Cd, Ca; 0.05 < x < 0.25). <i>Physica C: Superconductivity and Its Applications</i> , 1996, 261, 38-55.	0.6	12
60	Critical chain length and superconductivity emergence in oxygen-equalized pairs of YBa $_2$ Cu $_3$ O $_{6.30}$. <i>Physical Review B</i> , 2000, 61, 15450-15453.	1.1	12
61	Optical spectra of Nd $^{3+}$ in niobates of the tetragonal tungsten bronze family. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 729-739.	0.7	12
62	Microwave-assisted synthesis of Au, Ag and Au-Ag nanoparticles and their catalytic activities for the reduction of nitrophenol. <i>Studies in Surface Science and Catalysis</i> , 2010, , 621-624.	1.5	12
63	High valence transition metal-doped olivine cathodes for superior energy and fast cycling lithium batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25727-25738.	5.2	12
64	Effects of the annealing conditions on the structural and superconducting properties of Bi $_{2-x}$ Pb $_x$ Sr $_2$ Y $_0.2$ Ca $_0.8$ Cu $_2$ O $_z$. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 206, 33-42.	0.6	11
65	Chrysalis-Like Graphene Oxide Decorated Vanadium-Based Nanoparticles: An Extremely High-Power Cathode for Magnesium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070547.	1.3	11
66	Non-interacting hard ferromagnetic L10 FePt nanoparticles embedded in a carbon matrix. <i>Journal of Materials Chemistry</i> , 2011, 21, 18331.	6.7	10
67	Reversible Metal-Hydride Transformation in Mg-Ti Nanoparticles at Remarkably Low Temperatures. <i>ChemPhysChem</i> , 2019, 20, 1325-1333.	1.0	10
68	Characterization of defects produced during self-annealing implantation of As in silicon. <i>Journal of Applied Physics</i> , 1990, 68, 2708-2712.	1.1	9
69	Synthesis, X-ray crystal structure and dielectric measurements of a tetragonal tungsten bronze: Pb $_{0.75}$ K $_{1.80}$ Li $_{1.70}$ Nb $_5$ O $_{15}$. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2003, 218, 26-31.	0.4	9
70	CdSe Spherical Quantum Dots Stabilised by Thiomalic Acid: Biphasic Wet Synthesis and Characterisation. <i>ChemPhysChem</i> , 2011, 12, 863-870.	1.0	9
71	Structure, morphology and magnetic properties of Au/Fe $_3$ O $_4$ nanocomposites fabricated by a soft aqueous route. <i>Ceramics International</i> , 2019, 45, 449-456.	2.3	9
72	In-plane texture and transport properties of YBCO films grown on MgO cut off-axis. <i>Superconductor Science and Technology</i> , 1992, 5, 117-122.	1.8	8

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73	Strategies in electron diffraction data collection. <i>Advances in Imaging and Electron Physics</i> , 2002, 123, 311-325.	0.1	8
74	Nanoscale formation of new solid-state compounds by topochemical effects: The interfacial reactions ZnO with Al ₂ O ₃ as a model system. <i>Journal of Solid State Chemistry</i> , 2009, 182, 1291-1296.	1.4	8
75	The Heisenberg uncertainty principle demonstrated with an electron diffraction experiment. <i>European Journal of Physics</i> , 2010, 31, 1287-1293.	0.3	8
76	Using High Pressure to Prepare Polymorphs of the Ba ₂ Co _{1-x} Zn _x S ₃ (0 ≤ x ≤ 1.0) Compounds. <i>Inorganic Chemistry</i> , 2012, 51, 397-404.	1.9	8
77	Structure related superconducting properties in oxygen-chain-equalized and order-stabilized pairs of 123 copper oxides. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1997, 19, 1009-1018.	0.4	7
78	From Carbonate-Cuprates to Cuprate-Carbonates: The Structural Equivalence of CO ₃ and CuO _x Groups in the Ba-Cu-O System. <i>Journal of Solid State Chemistry</i> , 1997, 129, 165-173.	1.4	7
79	Structure determination by electron diffraction and HREM of the incommensurate modulated phase Ba _x CuO ₂ (0.67 ≤ x ≤ 0.70). <i>Physica C: Superconductivity and Its Applications</i> , 1999, 328, 89-103.	0.6	7
80	Inside Cover: Large-Scale Synthesis of Ultrathin Bi ₂ S ₃ Necklace Nanowires (<i>Angew. Chem. Int. Ed.</i>)	7.2	7
81	Influence of O _{III} ordering on T _c in YBCO. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1997, 19, 1075-1083.	0.4	6
82	T-O, O _{II} -O _{III} and O _{III} -O _I Phase Boundary in Oxygen-Chain-Equalised and Order-Stabilised Polycrystalline Pair Samples of YBa ₂ Cu ₃ O _{6+x} . <i>International Journal of Modern Physics B</i> , 1999, 13, 1073-1078.	1.0	6
83	Structural Properties and Thermal Stability of Bi ₈ Pb ₅ O ₁₇ Fast Ion Conducting Phases. <i>Journal of Solid State Chemistry</i> , 1999, 144, 255-262.	1.4	6
84	Effect of regioregularity on the photoresponse of Schottky-type junctions based on poly(3-alkylthiophenes). <i>Synthetic Metals</i> , 2001, 125, 313-317.	2.1	6
85	Neutron diffraction study of $\sqrt{5}$ -Bi ₈ Pb ₅ O ₁₇ : structure refinement and analysis of cationic ordering. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 237-243.	1.8	6
86	New approach to study melting processes in metal nanoparticles: capacitance measurements. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 237, 374-380.	0.7	6
87	HRTEM, Raman and optical study of CdS _{1-x} Se _x nanocrystals embedded in silicate glass. <i>Physica Status Solidi A</i> , 2004, 201, 3023-3030.	1.7	6
88	An experiment on the particle-wave nature of electrons. <i>European Journal of Physics</i> , 2009, 30, 217-226.	0.3	6
89	Effects of nitrogen annealing on structural, microstructural and superconducting properties of 2223 BPSCCO ceramics. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 223, 189-200.	0.6	5
90	Synthesis, single crystal growth and structural characterization of the new layered perovskite Ba ₂ Cu _{0.5} Na _{0.5} CO ₅ . <i>Materials Research Bulletin</i> , 1995, 30, 821-828.	2.7	5

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91	Thermodynamic Properties and Optical Characterization of Metal Nanoparticles in Dielectric Matrix. <i>Materials Science Forum</i> , 1995, 195, 161-166.	0.3	5
92	Jc enhancement by partial melting in BSCCO 2223 ceramics. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1997, 19, 1123-1129.	0.4	5
93	Phase transitions in gallium nanodroplets detected by dielectric spectroscopy. <i>European Physical Journal D</i> , 2003, 24, 219-222.	0.6	5
94	Electron spectroscopic imaging of dopant precipitation and segregation in silicon. <i>Ultramicroscopy</i> , 1991, 35, 265-269.	0.8	4
95	Amorphous carbon deposited by pulsed laser ablation as material for cold cathode flat emitters. <i>Applied Surface Science</i> , 2002, 186, 423-428.	3.1	4
96	Effects of simultaneous Pb/Bi and Y/Ca substitution on structural and superconducting properties of the 2212 BSCCO phase. <i>Journal of Alloys and Compounds</i> , 1993, 195, 315-322.	2.8	3
97	THE ROLE OF CuO CHAIN LENGTH ON SUPERCONDUCTIVITY EMERGENCE IN YBa ₂ Cu ₃ O _{6.30} . <i>International Journal of Modern Physics B</i> , 2000, 14, 2858-2865.	1.0	3
98	Resolution of Semiconductor Multilayers using Backscattered Electrons in Scanning Electron Microscopy. <i>Microscopy Microanalysis Microstructures</i> , 1995, 6, 499-504.	0.4	3
99	TEM observation of GaAs/GaAlAs laser diodes degraded in field operation. <i>Electronics Letters</i> , 1991, 27, 58-59.	0.5	1
100	Radiation damage evolution and its relation with dopant distribution during self-annealing implantation of As in silicon. <i>Journal of Materials Research</i> , 1992, 7, 1413-1422.	1.2	1
101	Dynamics of void formation during implantation of Si under self-annealing conditions and their influence on dopant distribution. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 80-81, 559-563.	0.6	1
102	Copper substitution effects on YBCO microstructure: oxygen ordering, structural coherence and superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 1259-1260.	0.6	1
103	Roughness increase and dimensional transitions during the growth of GaBa ₂ Cu ₃ O _{6+y} films on NdGaO ₃ . <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1997, 19, 1003-1008.	0.4	1
104	Off-Axis Electron Holography of Nearly-Spherical Faceted Voids in Self-Annealed Implanted Silicon. <i>Materials Characterization</i> , 1999, 42, 241-247.	1.9	1
105	Evidence of the B and C superconducting phases in the Bi-Ca-Sr-Cu-O system. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1989, 11, 903-906.	0.4	0
106	Microstructural characterization of the 85 K superconducting phase in the Bi ^{1-x} Ca ^x Sr ^{1-x} Cu ^x O system. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1989, 11, 1135-1143.	0.4	0
107	Electron holography study of voids in self-annealed implanted silicon. <i>Philosophical Magazine Letters</i> , 1998, 78, 445-451.	0.5	0
108	Charge Order and Tilt Modulation in Multiferroic K _x Mn _{1-x} Mn _{1-x} F ₃ (0.4 < x < 0.6) Transition Metal Fluorides with Tetragonal Tungsten Bronze Structure.. <i>ChemInform</i> , 2004, 35, no.	0.1	0