

# 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	Electrosynthesis of Ni/Al layered double hydroxide and reduced graphene oxide composites for the development of hybrid capacitors. <i>Electrochimica Acta</i> , 2021, 365, 137294.	2.6	19
2	Effect of different heat-treatment routes on the impact properties of an additively manufactured AlSi10Mg alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140671.	2.6	34
3	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
4	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
5	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
6	Interfaces within biphasic nanoparticles give a boost to magnesium-based hydrogen storage. <i>Nano Energy</i> , 2020, 72, 104654.	8.2	31
7	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
8	Reversible Metal-Hydride Transformation in Mg-Ti Nanoparticles at Remarkably Low Temperatures. <i>ChemPhysChem</i> , 2019, 20, 1325-1333.	1.0	10
9	Mercaptosilane-Passivated CuInS <sub>2</sub> Quantum Dots for Luminescence Thermometry and Luminescent Labels. <i>ACS Applied Nano Materials</i> , 2019, 2, 2426-2436.	2.4	26
10	Structure, morphology and magnetic properties of Au/Fe <sub>3</sub> O <sub>4</sub> nanocomposites fabricated by a soft aqueous route. <i>Ceramics International</i> , 2019, 45, 449-456.	2.3	9
11	Hydrogen Desorption Below 150 °C in Mg <sub>2</sub> -Ti <sub>2</sub> Composite Nanoparticles: Equilibrium and Kinetic Properties. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11166-11177.	1.5	68
12	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
13	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
14	Conversion of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid over Au-based catalysts: Optimization of active phase and metal-support interaction. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 520-530.	10.8	177
15	Facile magnetization reversal in bulk BiFe <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> . <i>Journal of Applied Physics</i> , 2015, 117, 174102.	1.1	24
16	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
17	Using High Pressure to Prepare Polymorphs of the Ba <sub>2</sub> Co <sub>1-x</sub> Zn <sub>x</sub> S <sub>3</sub> (0 ≤ x ≤ 1.0) Compounds. <i>Inorganic Chemistry</i> , 2012, 51, 397-404.	1.9	8
18	Non-interacting hard ferromagnetic L10 FePt nanoparticles embedded in a carbon matrix. <i>Journal of Materials Chemistry</i> , 2011, 21, 18331.	6.7	10

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19	Polymorphism and Multiferroicity in $\text{Bi}^{1-x/3}(\text{Mn}^{III})_3(\text{Mn}^{III}4\text{â€}x\text{Mn}^{IV})\text{O}_{12}$ . Chemistry of Materials, 2011, 23, 3628-3635.	3.2	15
20	CdSe Spherical Quantum Dots Stabilised by Thiomalic Acid: Biphasic Wet Synthesis and Characterisation. ChemPhysChem, 2011, 12, 863-870.	1.0	9
21	Structural and gas-sensing characterization of tungsten oxide nanorods and nanoparticles. Sensors and Actuators B: Chemical, 2011, 153, 340-346.	4.0	53
22	The Heisenberg uncertainty principle demonstrated with an electron diffraction experiment. European Journal of Physics, 2010, 31, 1287-1293.	0.3	8
23	Microwave-assisted synthesis of Au, Ag and Au-Ag nanoparticles and their catalytic activities for the reduction of nitrophenol. Studies in Surface Science and Catalysis, 2010, , 621-624.	1.5	12
24	An experiment on the particleâ€wave nature of electrons. European Journal of Physics, 2009, 30, 217-226.	0.3	6
25	Nanoscale formation of new solid-state compounds by topochemical effects: The interfacial reactions ZnO with $\text{Al}_2\text{O}_3$ as a model system. Journal of Solid State Chemistry, 2009, 182, 1291-1296.	1.4	8
26	Synthesis and characterization of multiferroic $\text{BiMn}_7\text{Mn}_5$ . Physical Review B, 2009, 79, .	1.1	45
27	Large-Scale Synthesis of Ultrathin $\text{Bi}_2\text{S}_3$ Necklace Nanowires. Angewandte Chemie - International Edition, 2008, 47, 3814-3817.	7.2	138
28	Inside Cover: Large-Scale Synthesis of Ultrathin $\text{Bi}_2\text{S}_3$ Necklace Nanowires (Angew. Chem. Int. Ed.) Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50	7.2	138
29	Antireflectingâ€passivating dielectric films on crystalline silicon solar cells for space applications. Solar Energy Materials and Solar Cells, 2008, 92, 1115-1122.	3.0	29
30	Structural properties and multiferroic phase diagram of $\text{K}_2\text{Mn}_2\text{O}_6$ . Physical Review B, 2008, 78, .	1.1	25
31	Metallic versus Covalent Bonding: Ga Nanoparticles as a Case Study. Journal of the American Chemical Society, 2007, 129, 8026-8033.	6.6	37
32	Size-Dependent Extinction Coefficients of PbS Quantum Dots. Journal of the American Chemical Society, 2006, 128, 10337-10346.	6.6	406
33	Shape-Controlled $\text{Bi}_2\text{S}_3$ Nanocrystals and Their Plasma Polymerization into Flexible Films. Advanced Materials, 2006, 18, 2189-2194.	11.1	122
34	Extreme undercooling (down to 90K) of liquid metal nanoparticles. Applied Physics Letters, 2006, 89, 033123.	1.5	59
35	Template evaporation method for controlling anatase nanocrystal size in ordered macroporous $\text{TiO}_2$ . Journal of Colloid and Interface Science, 2005, 290, 201-207.	5.0	22
36	High-Temperature Polymorphism in Metastable $\text{BiMnO}_3$ . Chemistry of Materials, 2005, 17, 6457-6467.	3.2	80

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37	Room Temperature Polymorphism in Metastable BiMnO <sub>3</sub> Prepared by High-Pressure Synthesis. <i>Chemistry of Materials</i> , 2005, 17, 1765-1773.	3.2	91
38	Optical spectra of Nd <sup>3+</sup> in niobates of the tetragonal tungsten bronze family. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 729-739.	0.7	12
39	Silicon heterojunction solar cells with p nanocrystalline thin emitter on monocrystalline substrate. <i>Thin Solid Films</i> , 2004, 451-452, 350-354.	0.8	15
40	HRTEM, Raman and optical study of CdS <sub>1-x</sub> Se <sub>x</sub> nanocrystals embedded in silicate glass. <i>Physica Status Solidi A</i> , 2004, 201, 3023-3030.	1.7	6
41	Charge Order and Tilt Modulation in Multiferroic K <sub>x</sub> Mn <sub>1-x</sub> Fe <sub>3</sub> (0.4 < x < 0.6) Transition Metal Fluorides with Tetragonal Tungsten Bronze Structure.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
42	Charge Order and Tilt Modulation in Multiferroic K <sub>x</sub> Mn <sub>1-x</sub> Fe <sub>3</sub> (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
43	Phase transitions in gallium nanodroplets detected by dielectric spectroscopy. <i>European Physical Journal D</i> , 2003, 24, 219-222.	0.6	5
44	Structure of Ti <sub>2</sub> P solved by three-dimensional electron diffraction data collected with the precession technique and high-resolution electron microscopy. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2003, 59, 117-126.	0.3	71
45	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
46	Flux-Assisted Self-Assembly of Monodisperse Colloids. <i>Langmuir</i> , 2003, 19, 7944-7947.	1.6	22
47	The early stages of the self-assembly process of polystyrene beads for photonic applications. <i>Synthetic Metals</i> , 2003, 139, 667-670.	2.1	16
48	Insight into the premelting and melting processes of metal nanoparticles through capacitance measurements. <i>Applied Physics Letters</i> , 2003, 82, 1461-1463.	1.5	22
49	Synthesis, X-ray crystal structure and dielectric measurements of a tetragonal tungsten bronze: Pb <sub>0.75</sub> K <sub>1.80</sub> Li <sub>1.70</sub> Nb <sub>5</sub> O <sub>15</sub> . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2003, 218, 26-31.	0.4	9
50	Strategies in electron diffraction data collection. <i>Advances in Imaging and Electron Physics</i> , 2002, 123, 311-325.	0.1	8
51	Open circuit voltage in homojunction and heterojunction silicon solar cells grown by VHF-PECVD. <i>Journal of Non-Crystalline Solids</i> , 2002, 299-302, 1203-1207.	1.5	18
52	Morphological characterization of poly(3-octylthiophene):plasticizer:C60 blends. <i>Thin Solid Films</i> , 2002, 403-404, 489-494.	0.8	25
53	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
54	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

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55	Secondary electron emission from diamond: Physical modeling and application to scanning electron microscopy. <i>Journal of Applied Physics</i> , 2001, 89, 689-696.	1.1	40
56	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
57	Spatial resolution and energy filtering of backscattered electron images in scanning electron microscopy. <i>Ultramicroscopy</i> , 2001, 88, 139-150.	0.8	14
58	Neutron diffraction study of $\text{Y-Bi}_8\text{Pb}_5\text{O}_{17}$ : structure refinement and analysis of cationic ordering. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 237-243.	1.8	6
59	Structure determination of $\text{Y-Bi}_8\text{Pb}_5\text{O}_{17}$ by electron and powder X-ray diffraction. <i>Ultramicroscopy</i> , 2000, 84, 133-142.	0.8	22
60	QED V 1.0: a software package for quantitative electron diffraction data treatment. <i>Ultramicroscopy</i> , 2000, 81, 57-65.	0.8	28
61	Critical chain length and superconductivity emergence in oxygen-equalized pairs of $\text{YBa}_2\text{Cu}_3\text{O}_{6.30}$ . <i>Physical Review B</i> , 2000, 61, 15450-15453.	1.1	12
62	THE ROLE OF $\text{CuO}$ CHAIN LENGTH ON SUPERCONDUCTIVITY EMERGENCE IN $\text{YBa}_2\text{Cu}_3\text{O}_{6.30}$ . <i>International Journal of Modern Physics B</i> , 2000, 14, 2858-2865.	1.0	3
63	T-O, OII-OIII and OIII-OI Phase Boundary in Oxygen-Chain-Equalised and Order-Stabilised Polycrystalline Pair Samples of $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ . <i>International Journal of Modern Physics B</i> , 1999, 13, 1073-1078.	1.0	6
64	$\text{Ba-Ca-Cu}$ 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
65	Structure determination by electron diffraction and HREM of the incommensurate modulated phase $\text{Ba}_x\text{CuO}_2$ ( $0.67 \leq x \leq 0.70$ ). <i>Physica C: Superconductivity and Its Applications</i> , 1999, 328, 89-103.	0.6	7
66	Optical and structural analysis of degraded high power $\text{InGaAlAs/AlGaAs}$ lasers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1999, 66, 209-214.	1.7	14
67	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
68	Structural Properties and Thermal Stability of $\text{Bi}_8\text{Pb}_5\text{O}_{17}$ Fast Ion Conducting Phases. <i>Journal of Solid State Chemistry</i> , 1999, 144, 255-262.	1.4	6
69	Electron holography study of voids in self-annealed implanted silicon. <i>Philosophical Magazine Letters</i> , 1998, 78, 445-451.	0.5	0
70	Preparation of the $\text{Nd-123}$ phase in air with as high as 95 K. <i>Superconductor Science and Technology</i> , 1997, 10, 347-355.	1.8	20
71	Roughness increase and dimensional transitions during the growth of $\text{GaBa}_2\text{Cu}_3\text{O}_{6+y}$ films on $\text{NdGaO}_3$ . <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
72	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

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73	Influence of Olll ordering onT c in YBCO. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1075-1083.	0.4	6
74	Jc enhancement by partial melting in BSCCO 2223 ceramics. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1997, 19, 1123-1129.	0.4	5
75	From Carbonate-Cuprates to Cuprate-Carbonates: The Structural Equivalence of CO3and CuOxGroups in the Baâ€“Cuâ€“Câ€“O System. Journal of Solid State Chemistry, 1997, 129, 165-173.	1.4	7
76	Different quantum behavior of theE1andE2spectral structures in Ge nanocrystals. Physical Review B, 1996, 53, 6992-6995.	1.1	64
77	Synthesis, crystal growth and structural characterisation of barium-copper oxycarbonates Ba2MxCu2âˆ“xâˆ“y(CO3)yO2+Î´ (M î→ Cu, Cd, Ca; 0.05 < x < 0.25). Physica C: Superconductivity and Its Applications, 1996, 261, 38-55.	0.6	12
78	Comparison of spatial resolutions obtained with different signal components in scanning electron microscopy. Ultramicroscopy, 1996, 65, 23-30.	0.8	18
79	Fundamental properties of lead and tin nanocrystals in a dielectric matrix. Superlattices and Microstructures, 1995, 17, 47-49.	1.4	18
80	On the resolution of semiconductor multilayers with a scanning electron microscope. Ultramicroscopy, 1995, 60, 229-239.	0.8	25
81	Synthesis, single crystal growth and structural determination of new copper oxycarbonates A4CuM(CO3)2O4, A = Sr, Ba, M = Li, Na, Ca. Physica C: Superconductivity and Its Applications, 1995, 247, 359-370.	0.6	13
82	Synthesis, single crystal growth and structural characterization of the new layered perovskite Ba2Cu0.5Na0.5CO5. Materials Research Bulletin, 1995, 30, 821-828.	2.7	5
83	Thermodynamic Properties and Optical Characterization of Metal Nanoparticles in Dielectric Matrix. Materials Science Forum, 1995, 195, 161-166.	0.3	5
84	Resolution of Semiconductor Multilayers using Backscattered Electrons in Scanning Electron Microscopy. Microscopy Microanalysis Microstructures, 1995, 6, 499-504.	0.4	3
85	Interpretation of Holographic Contour Maps of Reverse Biased p-n Junctions. Microscopy Microanalysis Microstructures, 1995, 6, 647-657.	0.4	15
86	Spontaneous Phase Fluctuations of Nanoparticles of Lead in a Silicon Oxide Matrix. Europhysics Letters, 1994, 26, 265-270.	0.7	17
87	Effects of nitrogen annealing on structural, microstructural and superconducting properties of 2223 BPSCCO ceramics. Physica C: Superconductivity and Its Applications, 1994, 223, 189-200.	0.6	5
88	Copper substitution effects on YBCO microstructure: oxygen ordering, structural coherence and superconductivity. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1259-1260.	0.6	1
89	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
90	Si-GaAs(001) superlattice structure. Journal of Crystal Growth, 1993, 127, 121-125.	0.7	12

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91	Effects of the annealing conditions on the structural and superconducting properties of $\text{Bi}_{2-x}\text{Pb}_x\text{Sr}_2\text{Y}_{0.2}\text{Ca}_{0.8}\text{Cu}_2\text{O}_z$ . <i>Physica C: Superconductivity and Its Applications</i> , 1993, 206, 33-42.	0.6	11
92	Dynamics of void formation during implantation of Si under self-annealing conditions and their influence on dopant distribution. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1993, 80-81, 559-563.	0.6	1
93	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
94	Oxygen order and charge-transfer mechanism in Zn-doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ . <i>Physical Review B</i> , 1993, 48, 1192-1195.	1.1	27
95	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
96	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
97	Structure and local dipole of Si interface layers in AlAs-GaAs heterostructures. <i>Physical Review B</i> , 1992, 46, 6834-6845.	1.1	44
98	Structural modulation and superconducting properties in (Bi, Pb) $2\text{Sr}_2(\text{Y, Ca})\text{Cu}_2\text{O}_z$ . <i>Physica C: Superconductivity and Its Applications</i> , 1992, 197, 283-298.	0.6	29
99	Computer simulations of electron holographic contour maps of superconducting flux lines. <i>Ultramicroscopy</i> , 1992, 41, 169-179.	0.8	14
100	TEM observation of GaAs/GaAlAs laser diodes degraded in field operation. <i>Electronics Letters</i> , 1991, 27, 58-59.	0.5	1
101	Electron spectroscopic imaging of dopant precipitation and segregation in silicon. <i>Ultramicroscopy</i> , 1991, 35, 265-269.	0.8	4
102	Composition and structure of Si $\delta$ -Ge layers produced by ion implantation and laser melting. <i>Journal of Materials Research</i> , 1991, 6, 2120-2126.	1.2	42
103	Electron holography of long-range electric and magnetic fields. <i>Journal of Applied Physics</i> , 1991, 69, 1835-1842.	1.1	73
104	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
105	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
106	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
107	Microstructural characterization of the 85 K superconducting phase in the Bi $\delta$ -Ca $\delta$ -Sr $\delta$ -Cu $\delta$ -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
108	Laser induced epitaxial regrowth of Si $_{1-x}$ Gex/Si layers produced by Ge ion implantation. <i>Applied Surface Science</i> , 1989, 43, 158-164.	3.1	12