

Mauro Gemmi

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122
papers

15,454
citations

31
h-index

124
g-index

139
ext. papers

19,462
ext. citations

5.1
avg, IF

6.78
L-index

#	Paper	IF	Citations
122	Ultrastructural Characterization of the Lower Motor System in a Mouse Model of Krabbe Disease. <i>Scientific Reports</i> , 2016 , 6, 1	4.9	12295
121	An advanced lithium-ion battery based on a graphene anode and a lithium iron phosphate cathode. <i>Nano Letters</i> , 2014 , 14, 4901-6	11.5	347
120	3D Electron Diffraction: The Nanocrystallography Revolution. <i>ACS Central Science</i> , 2019 , 5, 1315-1329	16.8	146
119	Graphene-based large area dye-sensitized solar cell modules. <i>Nanoscale</i> , 2016 , 8, 5368-78	7.7	114
118	Orientation and phase mapping in the transmission electron microscope using precession-assisted diffraction spot recognition: state-of-the-art results. <i>Journal of Microscopy</i> , 2013 , 252, 23-34	1.9	102
117	Fast electron diffraction tomography. <i>Journal of Applied Crystallography</i> , 2015 , 48, 718-727	3.8	101
116	Structure refinement using precession electron diffraction tomography and dynamical diffraction: tests on experimental data. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2015 , 71, 740-51	1.8	79
115	Effects of cerium oxide nanoparticles on PC12 neuronal-like cells: proliferation, differentiation, and dopamine secretion. <i>Pharmaceutical Research</i> , 2013 , 30, 2133-45	4.5	76
114	Chemical analyses of Bronze Age glasses from Frattesina di Rovigo, Northern Italy. <i>Journal of Archaeological Science</i> , 2004 , 31, 1175-1184	2.9	76
113	Structures of dolomite at ultrahigh pressure and their influence on the deep carbon cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 13509-14	11.5	75
112	Functionalized Graphene as an Electron-Cascade Acceptor for Air-Processed Organic Ternary Solar Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 3870-3880	15.6	63
111	Active Targeting of Sorafenib: Preparation, Characterization, and In Vitro Testing of Drug-Loaded Magnetic Solid Lipid Nanoparticles. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1681-90	10.1	63
110	Structure of Ti ₂ 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, 117-26		62
109	Scanning reciprocal space for solving unknown structures: energy filtered diffraction tomography and rotation diffraction tomography methods. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2013 , 228, 51-58	1	60
108	Structure solution with three-dimensional sets of precessed electron diffraction intensities. <i>Ultramicroscopy</i> , 2007 , 107, 483-94	3.1	59
107	Ultrafast Electron Diffraction Tomography for Structure Determination of the New Zeolite ITQ-58. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10116-9	16.4	59
106	ECS-3: a crystalline hybrid organic-inorganic aluminosilicate with open porosity. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 666-9	16.4	57

105	Gelatin/nanoceria nanocomposite fibers as antioxidant scaffolds for neuronal regeneration. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 386-395	4	54
104	Cytocompatibility evaluation of gum Arabic-coated ultra-pure boron nitride nanotubes on human cells. <i>Nanomedicine</i> , 2014 , 9, 773-88	5.6	51
103	Deterministic patterned growth of high-mobility large-crystal graphene: a path towards wafer scale integration. <i>2D Materials</i> , 2017 , 4, 021004	5.9	48
102	Precession Electron Diffraction Assisted Orientation Mapping in the Transmission Electron Microscope. <i>Materials Science Forum</i> , 2010 , 644, 1-7	0.4	47
101	Growth of InAs/InAsSb heterostructured nanowires. <i>Nanotechnology</i> , 2012 , 23, 115606	3.4	43
100	Cerium oxide nanoparticles: the regenerative redox machine in bioenergetic imbalance. <i>Nanomedicine</i> , 2017 , 12, 403-416	5.6	40
99	Nanobeam precession-assisted 3D electron diffraction reveals a new polymorph of hen egg-white lysozyme. <i>IUCrJ</i> , 2019 , 6, 178-188	4.7	40
98	Cytocompatibility evaluation of glycol-chitosan coated boron nitride nanotubes in human endothelial cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 111, 142-9	6	38
97	Rapid and catalyst-free van der Waals epitaxy of graphene on hexagonal boron nitride. <i>Carbon</i> , 2016 , 96, 497-502	10.4	36
96	Letter: Fe ³⁺ spin transition in CaFe ₂ O ₄ at high pressure. <i>American Mineralogist</i> , 2010 , 95, 200-203	2.9	33
95	3D electron diffraction techniques. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019 , 75, 495-504	1.8	32
94	Conducting shrinkable nanocomposite based on au-nanoparticle implanted plastic sheet: tunable thermally induced surface wrinkling. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7060-5	9.5	31
93	Dolomite-IV: Candidate structure for a carbonate in the Earth's lower mantle. <i>American Mineralogist</i> , 2017 , 102, 1763-1766	2.9	31
92	Crystal Structures of Two Important Pharmaceuticals Solved by 3D Precession Electron Diffraction Tomography. <i>Organic Process Research and Development</i> , 2018 , 22, 1365-1372	3.9	31
91	A new hydrous Al-bearing pyroxene as a water carrier in subduction zones. <i>Earth and Planetary Science Letters</i> , 2011 , 310, 422-428	5.3	30
90	Thermal expansion and phase transitions in kermanite and gehlenite. <i>Physics and Chemistry of Minerals</i> , 2005 , 32, 189-196	1.6	30
89	Scalable synthesis of WS ₂ on graphene and h-BN: an all-2D platform for light-matter transduction. <i>2D Materials</i> , 2016 , 3, 031013	5.9	28
88	Growth of defect-free GaP nanowires. <i>Nanotechnology</i> , 2014 , 25, 205601	3.4	28

87	Surface functionalisation regulates polyamidoamine dendrimer toxicity on blood-brain barrier cells and the modulation of key inflammatory receptors on microglia. <i>Nanotoxicology</i> , 2014 , 8, 158-68	5.3	27
86	Structure of the new mineral sarrabusite, $Pb_5CuCl_4(SeO_3)_4$, solved by manual electron-diffraction tomography. <i>Acta Crystallographica Section B: Structural Science</i> , 2012 , 68, 15-23		27
85	High-temperature behaviour of melilite: in situ X-ray diffraction study of gehlenite \leftrightarrow germanite \leftrightarrow melilite solid solution. <i>Physics and Chemistry of Minerals</i> , 2008 , 35, 147-155	1.6	26
84	Ionic Strength Responsive Sulfonated Polystyrene Opals. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4818-4827	9.5	25
83	Crystalline Curcumin bioMOF Obtained by Precipitation in Supercritical CO ₂ and Structural Determination by Electron Diffraction Tomography. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12309-12319	8.3	25
82	Catalyst-free growth of InAs nanowires on Si (111) by CBE. <i>Nanotechnology</i> , 2015 , 26, 415604	3.4	25
81	Structure solution of the new titanate $Li_4Ti_8Ni_3O_{21}$ using precession electron diffraction. <i>Acta Crystallographica Section B: Structural Science</i> , 2010 , 66, 60-8		25
80	QED v 1.0: a software package for quantitative electron diffraction data treatment. <i>Ultramicroscopy</i> , 2000 , 81, 57-65	3.1	25
79	Direct space structure solution from precession electron diffraction data: Resolving heavy and light scatterers in $Pb_{13}Mn_9O_{25}$. <i>Ultramicroscopy</i> , 2010 , 110, 881-90	3.1	23
78	Catalyst Composition Tuning: The Key for the Growth of Straight Axial Nanowire Heterostructures with Group III Interchange. <i>Nano Letters</i> , 2016 , 16, 7183-7190	11.5	22
77	Fermi surface and magnetic structure of $TmGa_3$. <i>Physical Review Letters</i> , 2001 , 86, 4616-9	7.4	22
76	Synthesis of colloidal Ag nanoparticles with citrate based ionic liquids as reducing and capping agents. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 538, 506-512	5.1	22
75	Effects of cerium oxide nanoparticles on hemostasis: Coagulation, platelets, and vascular endothelial cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 1551-1562	5.4	21
74	Single-crystal analysis of nanodomains by electron diffraction tomography: mineralogy at the order-disorder borderline. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2018 , 233, 163-178	1	21
73	Water dispersal and functionalization of hydrophobic iron oxide nanoparticles with lipid-modified poly(amidoamine) dendrimers. <i>Langmuir</i> , 2013 , 29, 10973-9	4	21
72	Crystal phase induced bandgap modifications in AlAs nanowires probed by resonant Raman spectroscopy. <i>ACS Nano</i> , 2013 , 7, 1400-7	16.7	21
71	Raman sensitivity to crystal structure in InAs nanowires. <i>Applied Physics Letters</i> , 2012 , 100, 143101	3.4	20
70	Phase transformations and reaction kinetics during the temperature-induced oxidation of natural olivine. <i>American Mineralogist</i> , 2003 , 88, 1560-1574	2.9	20

69	The Crystal Structure of Orthocetamol Solved by 3D Electron Diffraction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10919-10922	16.4	19
68	The high-pressure stability of chlorite and other hydrates in subduction manges: experiments in the system $\text{Cr}_2\text{O}_3\text{-MgO-Al}_2\text{O}_3\text{-SiO}_2\text{-H}_2\text{O}$. <i>Contributions To Mineralogy and Petrology</i> , 2014 , 167, 1	3.5	19
67	Nucleation and growth mechanism of self-catalyzed InAs nanowires on silicon. <i>Nanotechnology</i> , 2016 , 27, 255601	3.4	19
66	Electronic band structure of wurtzite GaP nanowires via temperature dependent resonance Raman spectroscopy. <i>Applied Physics Letters</i> , 2013 , 103, 023108	3.4	18
65	Suppression of lateral growth in InAs/InAsSb heterostructured nanowires. <i>Journal of Crystal Growth</i> , 2013 , 366, 8-14	1.6	18
64	A nanocrystalline monoclinic CaCO_3 precursor of metastable aragonite. <i>Science Advances</i> , 2018 , 4, eaau6178	1.7	18
63	Structure determination of $\text{Bi}_8\text{Pb}_5\text{O}_{17}$ by electron and powder X-ray diffraction. <i>Ultramicroscopy</i> , 2000 , 84, 133-42	3.1	17
62	Ab Initio Structure Determination of CuTe Plasmonic Nanocrystals by Precession-Assisted Electron Diffraction Tomography and HAADF-STEM Imaging. <i>Inorganic Chemistry</i> , 2018 , 57, 10241-10248	5.1	16
61	Workers' Exposure to Nano-Objects with Different Dimensionalities in R&D Laboratories: Measurement Strategy and Field Studies. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	16
60	Thermal expansion and dehydroxylation of phengite micas. <i>Physics and Chemistry of Minerals</i> , 2008 , 35, 367-379	1.6	16
59	Non-ideality and defectivity of the kermanite-gehlenite solid solution: An X-ray diffraction and TEM study. <i>American Mineralogist</i> , 2007 , 92, 1685-1694	2.9	16
58	High-pressure behavior of kermanite and gehlenite and phase stability of the normal structure in melilites. <i>American Mineralogist</i> , 2009 , 94, 704-709	2.9	15
57	Electron diffraction determination of 11.5 \AA and HySo structures: Candidate water carriers to the Upper Mantle. <i>American Mineralogist</i> , 2016 , 101, 2645-2654	2.9	15
56	Nanocrystals of Lead Chalcogenides: A Series of Kinetically Trapped Metastable Nanostructures. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10198-10211	16.4	14
55	Confined Polymerization in Highly Ordered Mesoporous Organosilicas. <i>Chemistry - A European Journal</i> , 2015 , 21, 18209-17	4.8	12
54	Eu Incorporation into Sol-Gel Silica for Photonic Applications: Spectroscopic and TEM Evidences of Quartz and Eu Pyrosilicate Nanocrystal Growth. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26831-26848 ^{3.8}	3.8	12
53	Plasma-enhanced chemical vapour deposition of microcrystalline silicon: On the dynamics of the amorphous-microcrystalline interface by optical methods. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2000 , 80, 459-473		12
52	Synthesis, properties and structure determination of $\text{Nb}_2\text{O}_3(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$ from neutron and synchrotron X-ray powder diffraction data. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 1738-1745	3.3	11

51	CsCuInCl Nanocrystals: A Perovskite-Related Structure with Inorganic Clusters at A Sites. <i>Inorganic Chemistry</i> , 2020 , 59, 548-554	5.1	11
50	(Na,?)[MnO] nanorods: a new tunnel structure for electrode materials determined ab initio and refined through a combination of electron and synchrotron diffraction data. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2016 , 72, 893-903	1.8	11
49	The MnCO ₃ -II high-pressure polymorph of rhodocrosite. <i>American Mineralogist</i> , 2015 , 100, 2625-2629	2.9	10
48	Design and optimization of lipid-modified poly(amidoamine) dendrimer coated iron oxide nanoparticles as probes for biomedical applications. <i>Nanoscale</i> , 2015 , 7, 7307-17	7.7	10
47	Synthesis and characterization of new barium titanate core-gold shell nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 415, 247-254	5.1	10
46	Strain-induced band alignment in wurtzite/zinc-blende InAs heterostructured nanowires. <i>Physical Review B</i> , 2015 , 92,	3.3	9
45	Chiral ionic liquid assisted synthesis of some metal oxides. <i>RSC Advances</i> , 2017 , 7, 1154-1160	3.7	8
44	Pr ³⁺ :BaY ₂ F ₈ Crystal Nanoparticles (24 nm) Produced by High-Energy Ball Milling: Spectroscopic Characterization and Comparison with Bulk Properties. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2844-2851	3.8	8
43	In situ simultaneous synchrotron powder diffraction and mass spectrometry study of methane anaerobic combustion on iron-oxide-based oxygen carrier. <i>Journal of Applied Crystallography</i> , 2005 , 38, 353-360	3.8	8
42	A new olanzapine cocrystal obtained from volatile deep eutectic solvents and determined by 3D electron diffraction. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020 , 76, 1036-1044	1.8	8
41	The Crystal Structure of Orthocetamol Solved by 3D Electron Diffraction. <i>Angewandte Chemie</i> , 2019 , 131, 11035-11038	3.6	7
40	Texture and Phase Recognition Analysis of NaYF ₄ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11404-11408	3.8	7
39	Airborne concentrations of chrysotile asbestos in serpentine quarries and stone processing facilities in Valmalenco, Italy. <i>Annals of Occupational Hygiene</i> , 2012 , 56, 671-83		7
38	The structure of kaliophilite KAlSiO, a long-lasting crystallographic problem. <i>IUCrJ</i> , 2020 , 7, 1070-1083	4.7	7
37	Two new minerals, badengzhuite, TiP, and zhiqinite, TiSi ₂ , from the Cr-11 chromitite orebody, Luobusa ophiolite, Tibet, China: is this evidence for super-reduced mantle-derived fluids?. <i>European Journal of Mineralogy</i> , 2020 , 32, 557-574	2.2	7
36	Crystal Structure of Linagliptin Hemihydrate Hemietanolate (C ₂₅ H ₂₈ N ₈ O ₂) ₂ (H ₂ O)(C ₂ H ₅ OH) from 3D Electron Diffraction Data, Rietveld Refinement, and Density Functional Theory Optimization. <i>Crystal Growth and Design</i> , 2021 , 21, 2019-2027	3.5	7
35	Evidence for subsolidus quartz-coesite transformation in impact ejecta from the Australasian tektite strewn field. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 264, 105-117	5.5	6
34	Quantitative texture analysis from powder-like electron diffraction data. <i>Journal of Applied Crystallography</i> , 2011 , 44, 454-461	3.8	6

33	Uranium-free X solution: a new generation contrast agent for biological samples ultrastructure. <i>Scientific Reports</i> , 2020 , 10, 11540	4.9	6
32	Electron Diffraction on Flash-Frozen Cowlesite Reveals the Structure of the First Two-Dimensional Natural Zeolite. <i>ACS Central Science</i> , 2020 , 6, 1578-1586	16.8	6
31	Racemic Conglomerate Formation via Crystallization of Metaxalone from Volatile Deep Eutectic Solvents. <i>Crystal Growth and Design</i> , 2020 , 20, 4731-4739	3.5	5
30	Internal field induced enhancement and effect of resonance in Raman scattering of InAs nanowires. <i>Solid State Communications</i> , 2013 , 160, 26-31	1.6	5
29	Neutron diffraction study of phi-Bi(8)Pb(5)O(17): structure refinement and analysis of cationic ordering. <i>Acta Crystallographica Section B: Structural Science</i> , 2001 , 57, 237-43		5
28	Structural Properties and Thermal Stability of Bi8Pb5O17Fast Ion Conducting Phases. <i>Journal of Solid State Chemistry</i> , 1999 , 144, 255-262	3.3	5
27	Color Differences Highlight Concomitant Polymorphism of Chalcones. <i>Crystal Growth and Design</i> , 2020 , 20, 6346-6355	3.5	5
26	Effect of pressure on the properties of a NASICON Li1.3Al0.3Ti1.7(PO4)3 nanofiber solid electrolyte. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13688-13696	13	5
25	Mapping of axial strain in InAs/InSb heterostructured nanowires. <i>Applied Physics Letters</i> , 2015 , 107, 093103	3.4	4
24	The thermoelastic behavior of clintonite up to 10 GPa and 1,000°C. <i>Physics and Chemistry of Minerals</i> , 2012 , 39, 385-397	1.6	4
23	Heterogeneity of nano-sized zeolite crystals. <i>Microporous and Mesoporous Materials</i> , 2020 , 294, 109897	5.3	4
22	Type II band alignment in InAs zinc-blende/wurtzite heterostructured nanowires. <i>Nanotechnology</i> , 2016 , 27, 415201	3.4	4
21	Structure determination, thermal stability and dissolution rate of Endomethacin. <i>International Journal of Pharmaceutics</i> , 2021 , 608, 121067	6.5	4
20	Novel TEM Microscopy and Electron Diffraction Techniques to Characterize Cultural Heritage Materials: From Ancient Greek Artefacts to Maya Mural Paintings. <i>Scanning</i> , 2019 , 2019, 4870695	1.6	3
19	Synthesis, crystal structure and physico-chemical properties of the new quaternary oxide Sr5BiNi2O9.6. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 3262-3268	3.3	3
18	Structural analysis of metastable pharmaceutical loratadine form II, by 3D electron diffraction and DFT+D energy minimisation. <i>CrystEngComm</i> , 2020 , 22, 7490-7499	3.3	3
17	Daliranite, PbHgAsS: determination of the incommensurately modulated structure and revision of the chemical formula. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019 , 75, 711-716	1.8	3
16	Covalent organic functionalization of graphene nanosheets and reduced graphene oxide via 1,3-dipolar cycloaddition of azomethine ylide. <i>Nanoscale Advances</i> ,	5.1	3

15	Nanostructures and microinfrared behavior of black opal from Gracias, Honduras. <i>Neues Jahrbuch Fur Mineralogie, Abhandlungen</i> , 2009 , 186, 11-20	1	2
14	Preparation and crystal structure of nanocrystalline RuZn ₃ . <i>Journal of Alloys and Compounds</i> , 2007 , 427, 300-304	5.7	2
13	Organic Cocrystals of TCNQ and TCNB Based on an Orthocetamol Backbone Solved by Three-Dimensional Electron Diffraction. <i>Crystal Growth and Design</i> , 2022 , 22, 1155-1163	3.5	2
12	The Effect of the Starting Mineralogical Mixture on the Nature of Fe-Serpentines Obtained during Hydrothermal Synthesis AT 90°C. <i>Clays and Clay Minerals</i> , 2020 , 68, 394-412	2.1	2
11	Jingsuiite, TiB ₂ , a new mineral from the Cr-11 podiform chromitite orebody, Luobusa ophiolite, Tibet, China: Implications for recycling of boron. <i>American Mineralogist</i> , 2021 ,	2.9	2
10	Solving unknown complex oxide structures by precession electron diffraction: AgCoO ₂ , PbMnO _{2.75} and LiTi _{1.5} Ni _{0.5} O ₄ . <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1184, 51		1
9	Combined Approach of Mechanochemistry and Electron Crystallography for the Discovery of 1D and 2D Coordination Polymers. <i>Crystal Growth and Design</i> , 2021 , 21, 6660-6664	3.5	1
8	3D Electron Diffraction Structure Determination of Terrylene, a Promising Candidate for Intermolecular Singlet Fission. <i>ChemPhysChem</i> , 2021 , 22, 1631-1637	3.2	1
7	Design and Synthesis of Ionic Liquid-Based Matrix Metalloproteinase Inhibitors (MMPiS): A Simple Approach to Increase Hydrophilicity and to Develop MMPI-Coated Gold Nanoparticles. <i>ChemMedChem</i> , 2019 , 14, 686-698	3.7	1
6	Optical properties of boron nitride nanotubes: potential exploitation in nanomedicine 2016 , 139-147		0
5	An experimental and computational study into the crystallisation propensity of 2nd generation sulflower. <i>Chemical Communications</i> , 2019 , 55, 14586-14589	5.8	0
4	Two New Organic Co-Crystals Based on Acetamidophenol Molecules. <i>Symmetry</i> , 2022 , 14, 431	2.7	0
3	Structural study of decrespignyite-(Y), a complex yttrium rare earth copper carbonate chloride, by three-dimensional electron and synchrotron powder diffraction. <i>European Journal of Mineralogy</i> , 2020 , 32, 545-555	2.2	
2	A New Method Based on Electron Diffraction for Detecting Nanoparticles in Injectable Medicines. <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 891-899	3.9	
1	3D electron diffraction study of terrestrial iron oxide alteration in the Mineo pallasite. <i>Mineralogical Magazine</i> , 1-10	1.7	