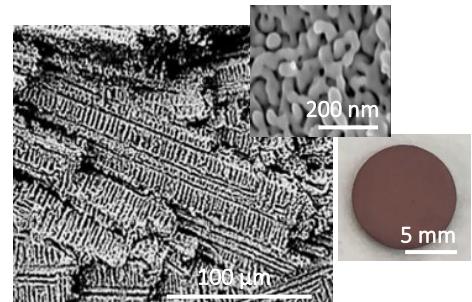
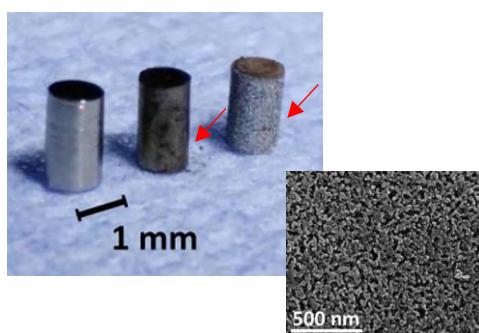
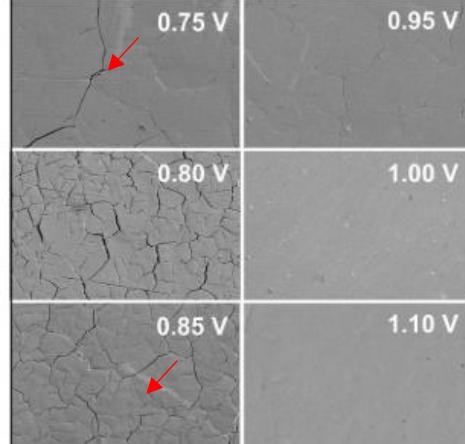
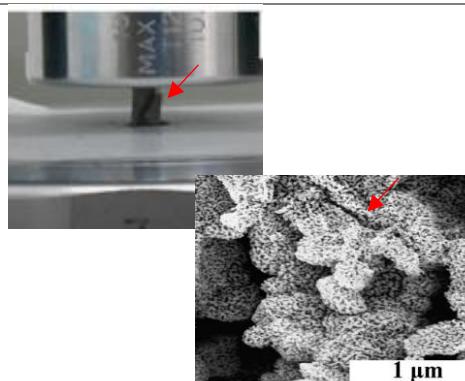
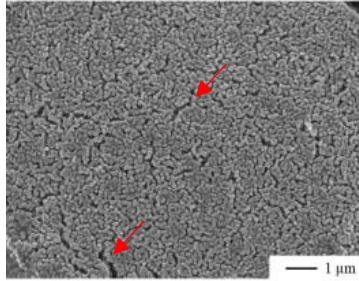
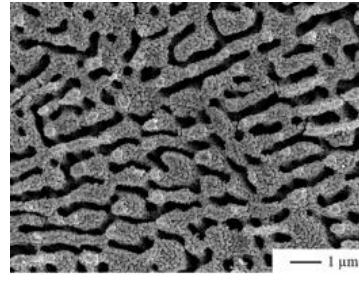
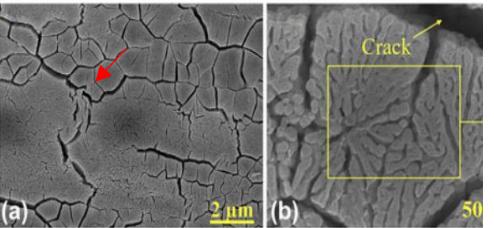


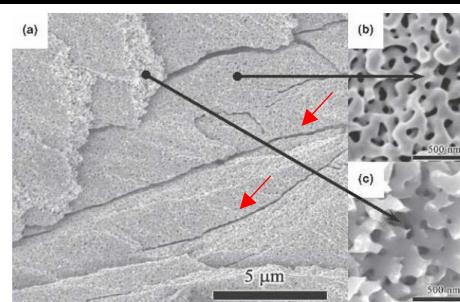
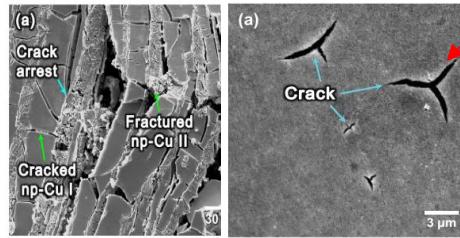
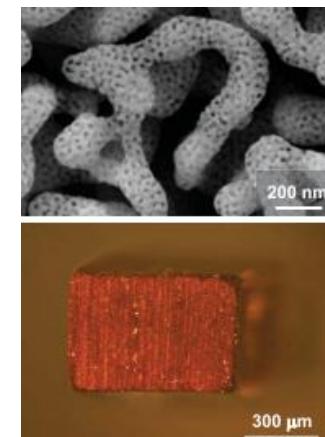
Supplementary Data

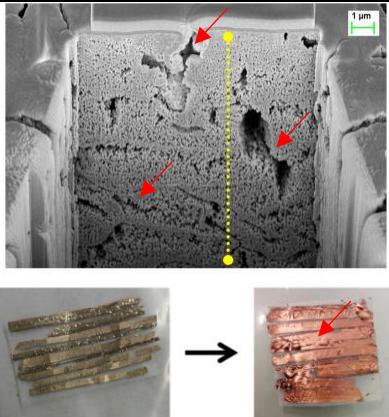
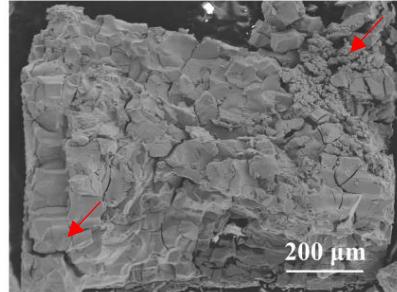
Table S1 Literature summary of the mechanical integrity and compression stress-strain data of bulk nanoporous metals obtained by dealloying.

Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Mn-40Cu	Solid solution	Cu	Hierarchical	44.7	58.08	163	3.09	Mn-20Cu exhibit brittle fracture upon dealloying. Mn-50Cu exhibited surface passivation upon dealloying. Mn-30, 40Cu exhibited a robust lattice-like structure. Robust nature of the unique structure was attributed to the precursor alloy microsegregation which produced an advantageous lattice-like macrostructure. Inhibited passivation of the segregated microstructure ensured complete dealloying of the interdendritic matrix containing a very low Mn content, resulting in reduced volumetric stresses. Compression testing performed on dealloyed Mn-40Cu specimens (dealloyed specimen pictured).		This work
Cu ₂₀ Ni ₁₀ Mn ₇₀	Solid solution	Cu	Monolithic	13-40	69	~52.5-18	3-11	Low cracking. High strength of np Cu attributed to the small ligament size compared to microporous Cu structures. (Up to 7 MPa for Cu foams). Due to the high surface area to volume ratio of np Cu, the nature of the surface may influence its mechanical performance. As described earlier, Cu and Ni readily form an oxide layer on the materials surface. During deformation, the dislocation motion can be impeded through pinning of dislocation endpoints at the adsorbed surface layer, a mechanism known as “adsorption locking”		[1]

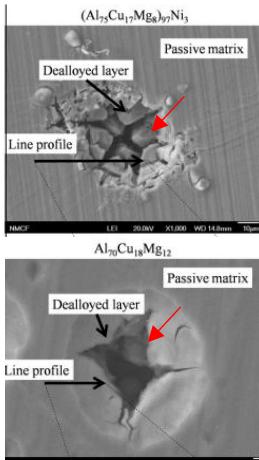
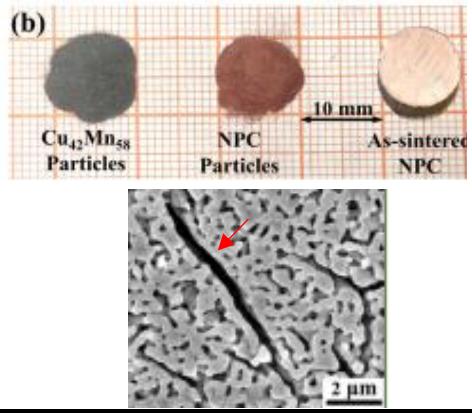
Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Cu-25Au	Solid solution	Au	Monolithic	10	-	70	2	Cracking in specimens with higher electrochemical dealloying potentials resulting in improved mechanical integrity and lesser cracking.		[2]
Al-22Cu	Intermetallic	Cu	Hierarchical	27	80	4.5-5.8	3.5-4.5	Brittle failure under compression.		[3]

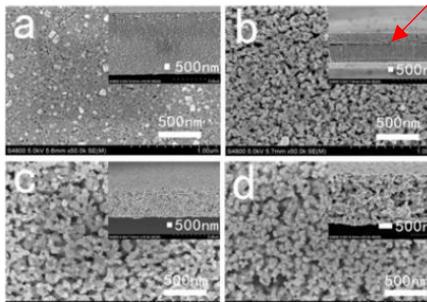
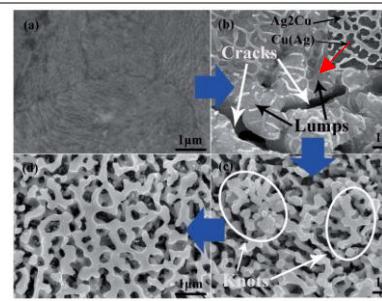
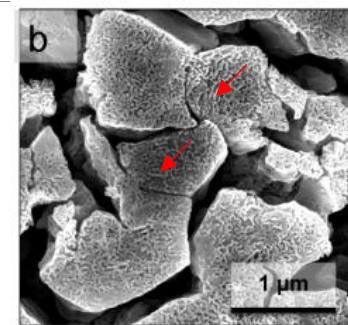
Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Al-30, 33, 40, 50Cu	Intermetallic	Cu	Monolithic/Hierarchical	56.3-73.9	2.71-17.18	~4-29		Low stress required to fracture. Strain to failure is quite variable. Interestingly, lower precursor alloy Cu fraction resulted in higher ductility in as-dealloyed specimens. Strain to failure is reported to be approaching 60 % for all specimens, however, evidence of brittle fracture is evident at lower strain. As-dealloyed specimen mechanical integrity not mentioned, cracks in SEM micrographs.	 	[4]
Al-25Cu	Amorphous/Intermetallic	Cu	Monolithic/Hierarchical	19.7-46.9	-	-	-	Some specimens displayed severe cracking after dealloying while others did not – depending on the solution used. Mechanism not explored.	 	[5]

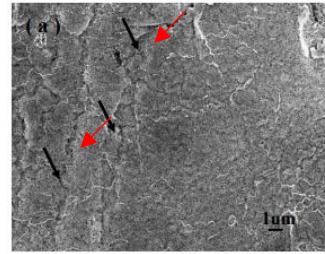
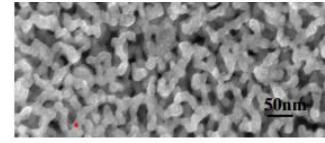
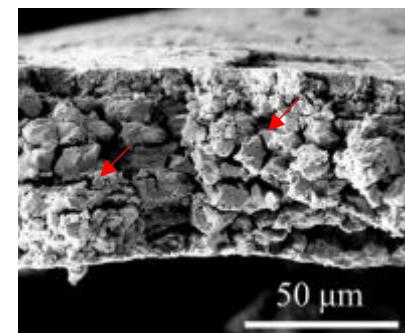
Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Mn-30Cu	Solid solution	Cu	Monolithic	16-125	70	-	-	Cracking in as-dealloyed samples despite being a solid solution. Cracking noted to be unavoidable.		[6]
Mg-33Cu and Mg-36.7 CuMg ₂ CuMg	Intermetallic	Cu	Monolithic/hierarchical	Monolithic - 36 Hierarchical - 34	Monolithic - c-73 Hierarchical - Unknown	Monolithic - 8.5 Hierarchical - 15.4	~7.5 % (Hierarchical)	Cracks in as-dealloyed samples. Hierarchical structure showed improved hardness and strength over monolithic structure. Attributed to load-bearing and crack-arresting effects of the embedded undealloyed intermetallic particles. Drop off in stress and jagged stress-strain profile at ~ 6 % strain indicates brittle fracture. Continual loading occurs after fracture.		[7]
Ag-7Au	Solid solution	Au	Hierarchical	45-180	62-68	9-26	>40	As-dealloyed samples are free of microcracks. Lower (nanopores) and upper (struts) hierarchical levels. The upper-hierarchy-level struts of N3 PG appear to support ductile plastic bending, whereas NPG is typically brittle when loaded in bending. Two stage dealloying process allows for high Au fraction within the macro ligaments before complete dealloying. This was said to improve mechanical integrity before complete dealloying/		[8]

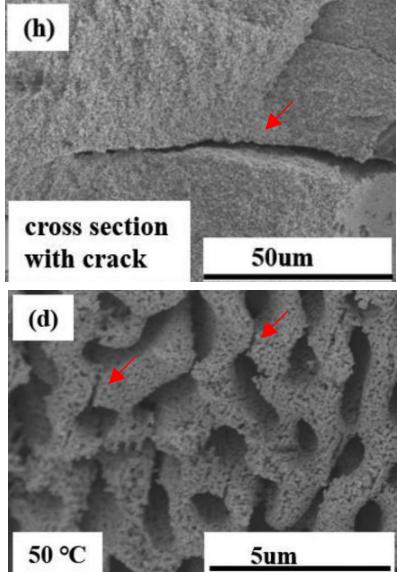
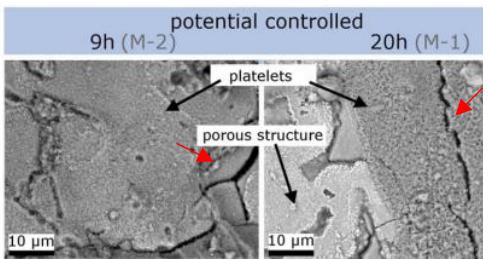
Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Cu30Mg25Ca45, Cu35Mg25Ca40, Cu40Mg25Ca35 and Cu45Mg25Ca30	Intermetallic	Cu	Hierarchical	55-195	-	-	-	Substantial cracking in all specimens.		[9]
Ni-20Pd	Solid solution	Pd	Monolithic	22	-	-	-	Significant cracking resulting in sample collapsing.		[10]

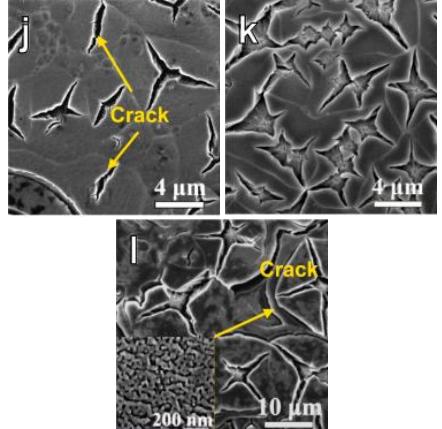
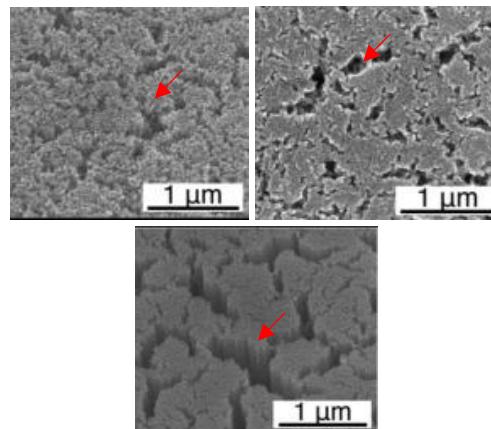
Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Ag-20, 25, 30, 35Au	Solid solution	Au	Monolithic	-	-	-	-	Cracking developing after dealloying all compositions. Most significant cracking occurred in Ag-20Au specimens. Rapid surface passivation occurred in Ag-40Au specimens.		[11]
Al-30, 33, 40, 50Cu	Intermetallic	Cu	Monolithic/Hierarchical	100-500	-	-	-	Cracking in Al-33Cu specimens. Higher atomic fractions of Cu showed improved mechanical integrity.		[12]
Mg-33, 40, 50, 60, 67	Intermetallic	Cu	Monolithic/Hierarchical	148-272	-	-	-	Cracking in all specimens.		[13]

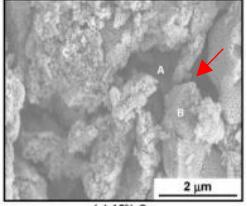
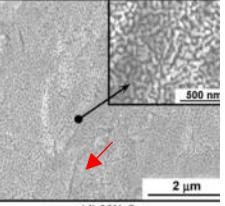
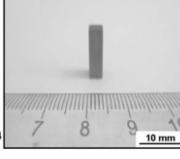
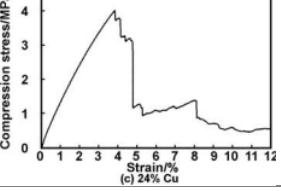
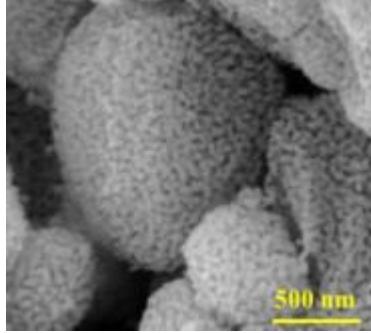
Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
(Al ₇₅ Cu ₁₇ Mg ₈) ₉₇ Ni ₃ Al ₇₀ Cu ₁₈ Mg ₁₂	Amorphous	Cu	Monolithic	10-30	-	-	-	Cracking in all specimens.		[14]
Mn-42Cu	Solid solution	Cu	Monolithic/hierarchical	75-480	41-73	6.5 (Monolithic) ~25-200 (Hierarchical)	~3 % (monolithic) ~12-20 % (Hierarchical)	Significant cracking of dealloyed monolithic nanoporous Cu specimens. Loosely packed powderized nanoporous samples were sintered to form a hierarchical porous Cu structure. Adept solution to robust mechanical integrity at the cost of heavily coarsened ligaments (up to 480 nm).		[15]

Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Ti ₅₀ Cu ₄₆ Co ₄	Amorphous	Cu	Monolithic	10-60 nm	-	-	-	Cracking in all nanoporous Cu specimens produced by increasing dealloying time in a 0.23 M HCl solution.		[16]
Cu-25Ag	Intermetallic	Ag	Hierarchical	70-190	-	-	-	Cracking observed with and without ultrasonication. Ultrasonication accelerated cracking.		[17]
Zn-20Cu	Solid solution	Cu	Monolithic	21-128	-	-	-	Micro-cracks are observed in the dealloyed ribbons due to the strong volume changes during the Zn dissolution and the resulting crystal transformation from hexagonal close packed (hcp) to face-centered cubic (fcc).		[18]

Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Mg-12Cu	Intermetallic	Cu	Hierarchical	20	-	-	-	Cracking found to be unavoidable. Massive and rapid extension of cracks.	 	[19]
Cu-10Au	Solid solution	Au	Monolithic	36-43	-	-	-	Significant cracking forming primarily at the grain boundaries of the precursor Cu-10Au alloy.		[20]

Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Al-25, 38, 50Cu	Intermetallic	Cu	Hierarchical	40-120	57.07-69.52	~01.5-8.5	15-20	Cracks present in all dealloyed specimens. Low compressive strength and strain to failure. It is noted that nanoporous Cu exhibits more brittle behaviour than nanoporous Au, might be related to the oxidation on the sample surface. Mechanical properties improved by impregnating pores with an epoxy to form a composite material. However, functional properties are lost.		[21]
Al-17, 25, 33 Cu	Intermetallic	Cu	Hierarchical	25-50	-	-	-	Cracking observed in all specimens. Mechanical integrity of samples not discussed.		[22]

Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Zr-30, 40, 50, 60 Cu	Amorphous	Cu	Monolithic	20-35	-	-	-	Top surface cracking present from both the lowest to the highest Cu fractions.		[23]
Al-20, 35Cu Zn-20Cu	Intermetallic	Cu	Hierarchical	21-28	57-78	-	-	Top surface intergranular cracking present in all specimens.		[24]

Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Al-18, 20, 24, 32	Intermetallic	Cu	Hierarchical	15-60	76-88	~0.16-10	~3.5-8	Increasing compressive strength and strain to failure with increasing Cu content. Cracking in all as-dealloyed specimens.	   	[25]
Al-65Cu	Intermetallic	Cu	Composite	40	-	45	8	Low compressive strength and strain to failure. Mechanical integrity of specimens not discussed. Composite structure intermetallic/nanoporous.		[26]

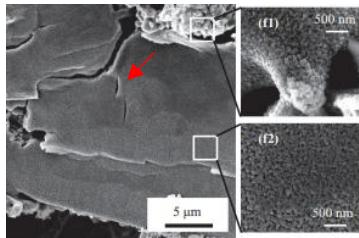
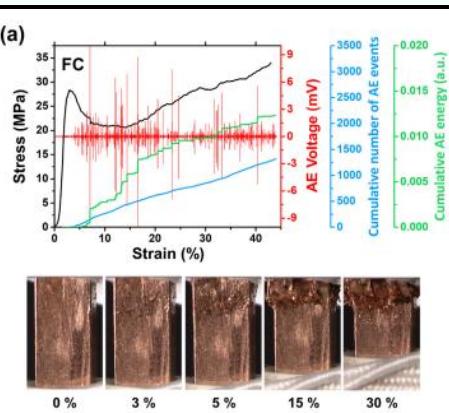
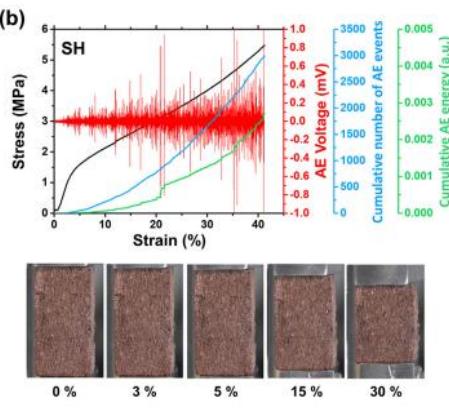
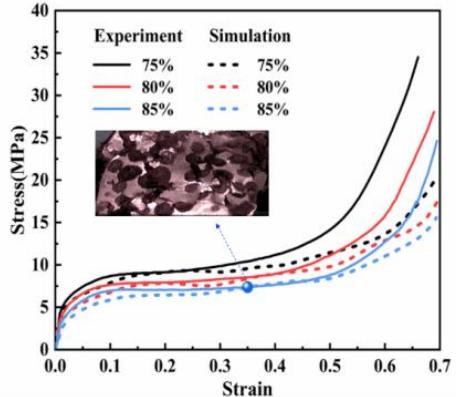
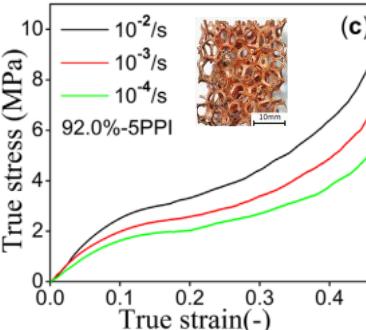
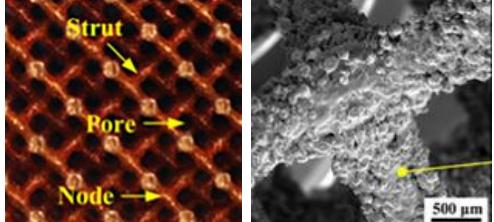
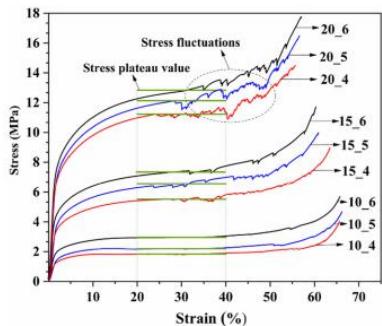
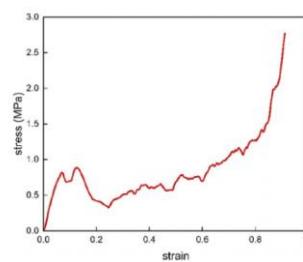
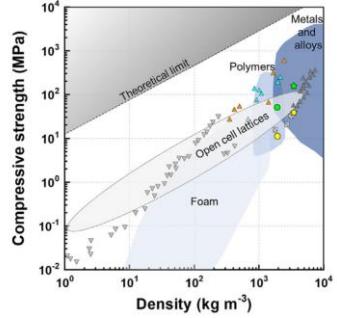
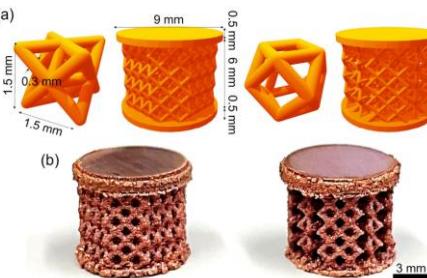
Precursor alloy nominal composition (at.%)	Precursor alloy phase	Nanoporous metal	As-dealloyed structure	Ligament diameter (nm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Al-30, 40Cu	Intermetallic	Cu	Hierarchical	30-100	-	-	-	Destructive cracking in all as-dealloyed specimens.		[27]

Table S2 Summary of bulk compression stress-strain data obtained from open cell Cu foams.

Fabrication method	Strut diameter (μm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Freeze casting	12	62.8-72.9	19.4-29.4	3	<p>Brittle fracture at a compressive strain approaching 3 %. A stress drop and jagged stress-strain profile correlates with visual brittle fracture approaching 3 % strain.</p> <p>Continual loading results in compression of broken struts.</p> <p>Analogous to examples of dealloying fabrication of nanoporous Cu found in the literature which claim to exhibit high compressive strains.</p>		[28]
Space holder	16	70.2-77.1	1.2-2.3	50	<p>Conversely, ductile compression exhibits no drop in stress and maintains a smooth profile. Flow stress increases with increasing compressive strain.</p> <p>Photographs correlate with ductile compression of well over 30 % strain.</p>		[28]

Fabrication method	Strut diameter (μm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Space holder	>500	75-85	~25-35 MPa	65-70	Ductile, high strain to failure.		[29]
Electro-deposition	~500-1000	90.3-96.4	~2-11	Approaching 50 %	Ductile, high strain to failure. Large porosities as high as 96.4 %.		[30]

Fabrication method	Strut diameter (μm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Selective laser melting (SLM)	~500-1000	80-90	1.84-12.83	~30(stress plateau)	Composition modified to improve printability using a laser power source (Cu-0.6Cr-0.4Zr, wt.%) Ductile compressive stress-strain response. Compressive strength defined as the first observation of a stress plateau in the stress-strain graph.	 	[31]
Electroless deposition	~505	88.2	0.8	8	Low stress and strain at the stress plateau due to unoptimized electroless deposition of the relatively brittle Cu foam.	 	[32]

Fabrication method	Strut diameter (µm)	Porosity (%)	Compressive strength (MPa)	Compressive strain (%)	Comments	Extracted figures	Ref
Laser powder bed fusion (PBF-LB/M)	328 – Octet-truss (Oct) 347 – Cuboctahedron (Cub)	62 – Oct 79 - Cub	~50 - Oct ~15 - Cub	~50	Ductile and strong Oct and Cub Cu structures. Compressive strength increased considerably with increasing strain rate.		[33]
PBF-LB/M	-	70	~50 – 1 % LaB ₆ ~10 - Cu	~60	Ductile and strong. Addition of 1 % LaB ₆ resulted in a large increase in compressive strength while retaining high ductility.		[34]

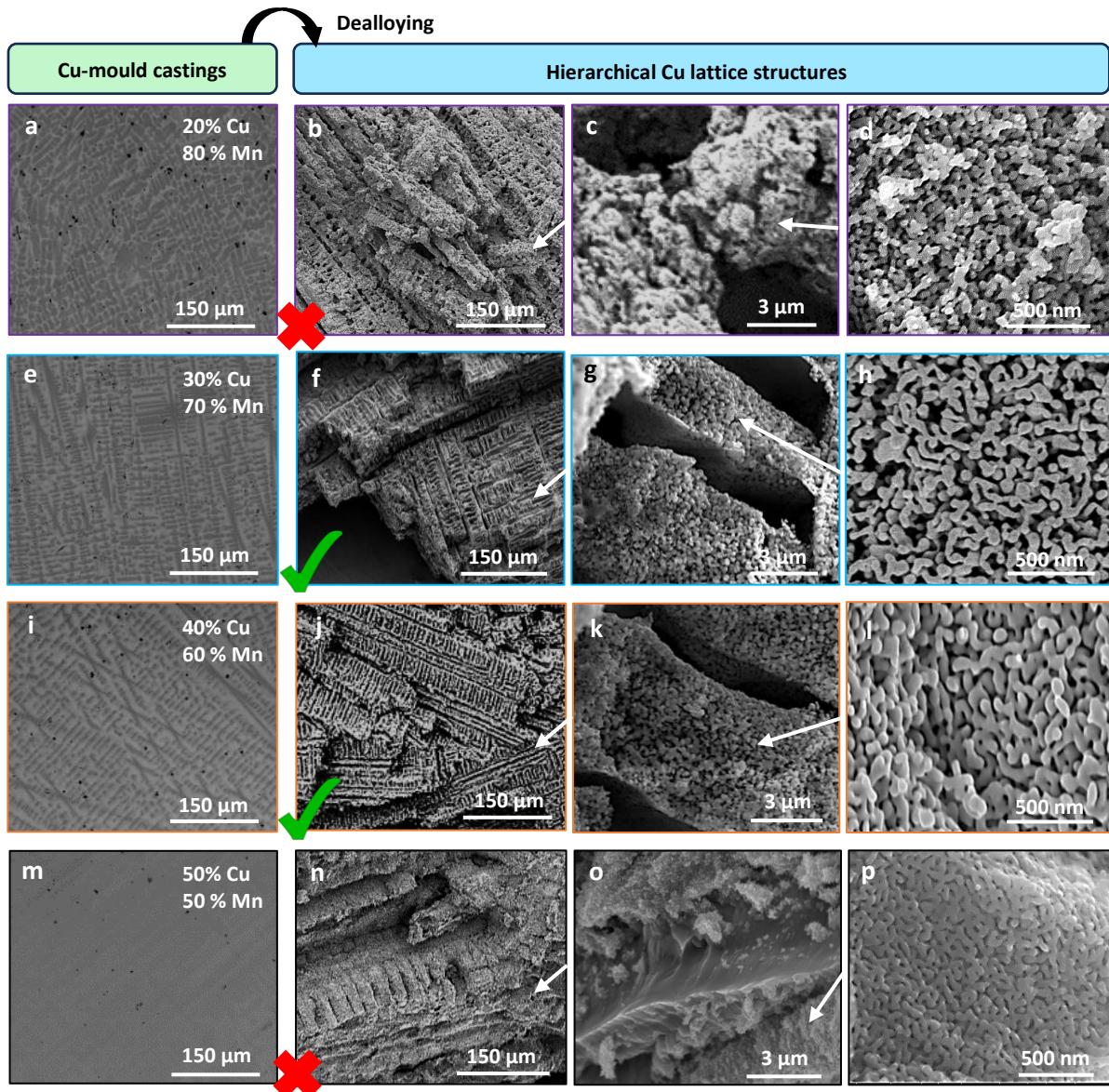


Fig. S1: Low-magnification BSE micrographs of the Cu mould-cast precursor alloy microstructures, alongside cross-sectional secondary electron (SE) micrographs of the as-dealloyed Cu structures obtained after dealloying in a 1 M HCl solution at 60°C. **a-d**, Mn-20Cu, **e-h**, Mn-30Cu, and **i-l**, Mn-40Cu reveal a hierarchical, lattice-like Cu structure with struts composed of nanoligaments. The Mn-20Cu specimens exhibited significant cracking and fragmentation during handling. **m-p**, Mn-50Cu specimens displayed a composite structure consisting of nanoligaments surrounding an undalloyed Cu-rich matrix. Green ticks mark suitable compositions, while red crosses indicate unsuitable ones.

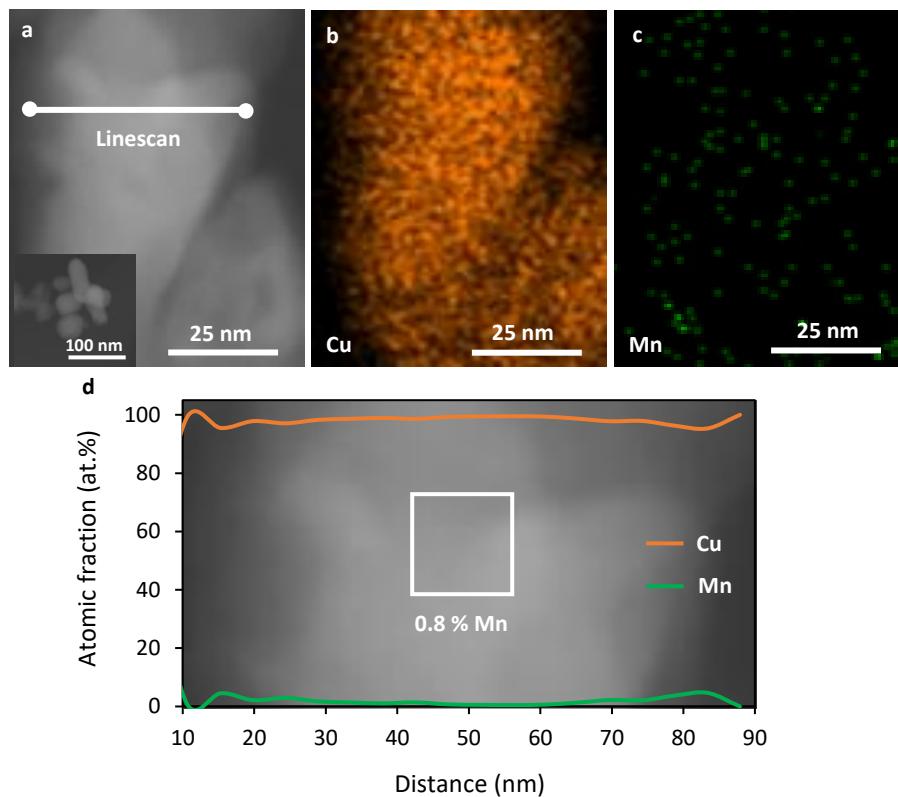


Fig. S2: **a**, Representative scanning transmission electron microscopy (STEM) micrograph of an isolated nanoligament obtained from the dealloying of a Mn-40Cu alloy in a 1 M HCl solution at 60 °C. Inset: Nanoligament cluster. **b**, Cu and **c**, Mn energy dispersive X-ray spectroscopy (EDS) maps. **d**, EDS linescan shows the atomic fractions of Cu and Mn elements across the thickness of the nanoligament. Selected area EDS analysis in the core of the nanoligament shows a residual Mn content of only 0.8 %, validating the success of the dealloying process.

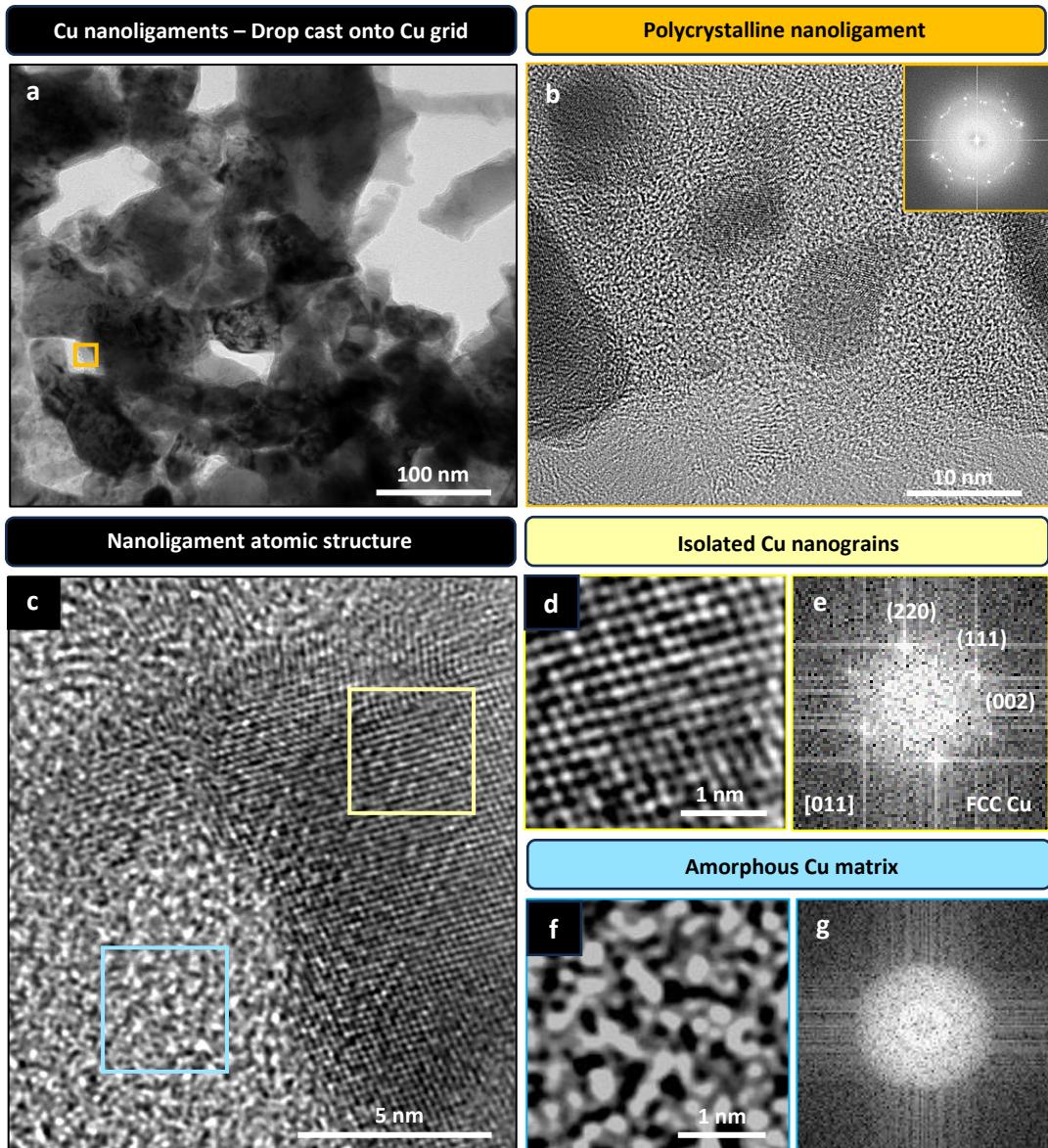


Fig. S3: **a**, Bright-field (BF) TEM micrograph of as-dealloyed Cu nanoligaments drop-cast onto a Cu grid. **b**, High-resolution TEM (HRTEM) micrograph of an isolated nanoligament reveals multiple nanograins (**inset**: fast Fourier transform (FFT) shows a dotted ring pattern indicative of disoriented grains). **c**, HRTEM micrograph of the nanoligament microstructure highlights misoriented nanograins embedded within an amorphous matrix. **d, e**, High-magnification HRTEM micrograph confirms the repeating lattice structure as face-centred cubic (FCC) Cu through indexed FFT analysis. **f, g**, High-magnification HRTEM micrograph of the amorphous Cu matrix is validated by the FFT, which displays a diffuse ring pattern.

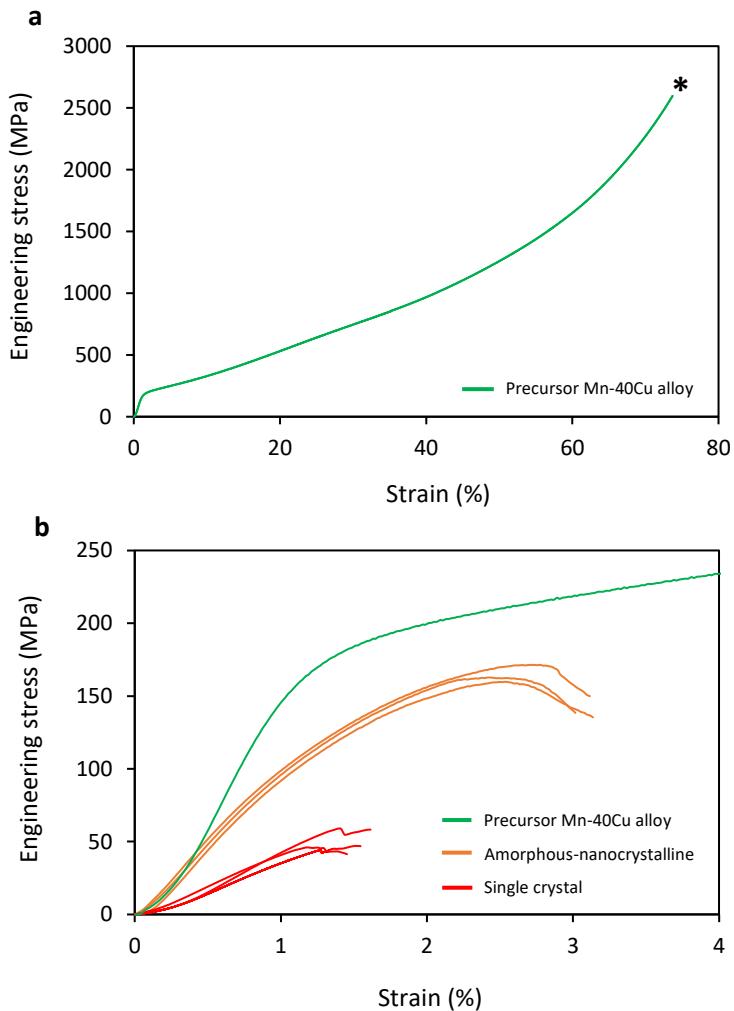


Fig. S4: **a**, Engineering stress-strain curves obtained from compression testing of the ductile Mn-40Cu precursor alloy. **b**, Comparative analysis of the Mn-40Cu precursor alloy, amorphous-nanocrystalline specimens dealloyed in a 1 M HCl solution at 60°C, and single-crystal specimens dealloyed in a 0.1 M HCl solution at 20°C. Compression tests were conducted on cylindrical samples (10 mm in height and 5 mm in diameter) at a displacement rate of 0.01 mm/s. Statistical reliability was ensured by testing a minimum of three specimens per condition. *Denotes exceeding of the 50 kN maximum force capacity of the compression testing machine

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