

Chandra Sekhar Tiwary

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2279929/chandra-sekhar-tiwary-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

309
papers

8,815
citations

48
h-index

78
g-index

330
ext. papers

10,700
ext. citations

7.2
avg, IF

6.47
L-index

#	Paper	IF	Citations
309	Revisiting Quasicrystals for the Synthesis of 2D Metals. <i>Transactions of the Indian Institute of Metals</i> , 2022 , 75, 1093	1.2	1
308	Atomically thin gallium telluride nanosheets: A new 2D material for efficient broadband nonlinear optical devices. <i>Applied Physics Letters</i> , 2022 , 120, 021101	3.4	1
307	Macroscopic Mechanistic Modeling for the Prediction of Mold Slag Exposure in a Continuous Casting Mold. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022 , 53, 1018	2.5	1
306	Real-time quality monitoring and organic pollutants degradation of water using atomically thin Magnesiochromite. <i>Materials Research Bulletin</i> , 2022 , 146, 111590	5.1	1
305	Highly Sensitive and Selective Triethylamine Sensing through High-Entropy Alloy (Ti-Zr-Cr-V-Ni) Nanoparticle-Induced Fermi Energy Control of MoS Nanosheets.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	3
304	Laser welding of a W-free precipitation strengthened Co-base superalloy. <i>Journal of Materials Science</i> , 2022 , 57, 7085-7100	4.3	0
303	Enhancement in magnetization of two-dimensional cobalt telluride and its magnetic field-assisted photocatalytic activity. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128, 1	2.6	2
302	3D Printed Materials in Water Treatment Applications. <i>Advanced Sustainable Systems</i> , 2022 , 6, 2100282	5.9	3
301	Microstructure-strength correlations in Al-Si-Cu alloys micro-alloyed with Zr. <i>Materialia</i> , 2022 , 101449	3.2	1
300	Photon and vibration synergism on planar defects induced 2D-graphitic carbon nitride for ultrafast remediation of dyes and antibiotic ampicillin. <i>Journal of Materials Science</i> , 2022 , 57, 8658-8675	4.3	2
299	Review of strategies toward the development of alloy two-dimensional (2D) transition metal dichalcogenides.. <i>IScience</i> , 2021 , 24, 103532	6.1	3
298	Pseudocapacitive TiNbO/reduced graphene oxide nanocomposite for high-rate lithium ion hybrid capacitors.. <i>Journal of Colloid and Interface Science</i> , 2021 , 610, 385-394	9.3	1
297	A Mathematical Model for Air Atomization of Molten Slag Based on Integral Conservation Equations. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 4197	2.5	0
296	Hierarchical cage-frame type nanostructure of CeO for bio sensing applications: from glucose to protein detection. <i>Nanotechnology</i> , 2021 , 32, 025504	3.4	8
295	A Mechanistic Model to Estimate the Effect of Ladle Slag Entrainment on the Tundish Covering Slag Layer. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 1279-1293	2.5	2
294	Scalable Synthesis of Atomically Thin Gallium Telluride Nanosheets for Supercapacitor Applications. <i>ACS Applied Nano Materials</i> , 2021 , 4, 4829-4838	5.6	15
293	Atomic Scale Structure Inspired 3D-Printed Porous Structures with Tunable Mechanical Response. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001428	3.5	7

292	Emerging 2D metal oxides and their applications. <i>Materials Today</i> , 2021 , 45, 142-168	21.8	48
291	On the effect of Ti addition on microstructural evolution, precipitate coarsening kinetics and mechanical properties in a Co ₃₀ Ni ₇₀ Al ₃ Mo ₂ Nb alloy. <i>Materialia</i> , 2021 , 16, 101072	3.2	2
290	Improved mechanical and wear properties of Cu-Ga-In ternary alloys through liquid reinforcement. <i>Materials Today Communications</i> , 2021 , 27, 102409	2.5	1
289	Damage-tolerant 3D-printed ceramics via conformal coating. <i>Science Advances</i> , 2021 , 7,	14.3	5
288	On the mechanical properties of atomic and 3D printed zeolite-templated carbon nanotube networks. <i>Additive Manufacturing</i> , 2021 , 37, 101628	6.1	2
287	Cryomilling as environmentally friendly synthesis route to prepare nanomaterials. <i>International Materials Reviews</i> , 2021 , 66, 493-532	16.1	10
286	A study of microbially fabricated bio-conjugated quantum dots for pico-molar sensing of HO and glucose. <i>Biomaterials Science</i> , 2021 , 9, 157-166	7.4	2
285	Ultrahigh transverse rupture strength in tungsten-based nanocomposites with minimal lattice misfit and dual microstructure. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021 , 95, 105454	4.1	0
284	A multivariate modeling and experimental realization of photocatalytic system of engineered S-CN/ZnO hybrid for ciprofloxacin removal: Influencing factors and degradation pathways. <i>Environmental Research</i> , 2021 , 196, 110390	7.9	19
283	Confinement Aided Simultaneous Water Cleaning and Energy Harvesting Using Atomically Thin Wurtzite (Wurtzene). <i>Advanced Sustainable Systems</i> , 2021 , 5, 2000189	5.9	1
282	Copper Nanoparticle-Graphene Composite-Based Transparent Surface Coating with Antiviral Activity against Influenza Virus. <i>ACS Applied Nano Materials</i> , 2021 , 4, 352-362	5.6	29
281	Lanthanum ions decorated 2-dimensional g-CN for ciprofloxacin photodegradation. <i>Chemosphere</i> , 2021 , 268, 128780	8.4	18
280	Effect of Mn Addition on the Mechanical Properties of Al _{12.6} Si Alloy: Role of Al ₁₅ (MnFe) ₃ Si ₂ Intermetallic and Microstructure Modification. <i>Metals and Materials International</i> , 2021 , 27, 1713-1727	2.4	3
279	Interface chemistry of atomic-scale structures for building bioinspired 3D light-weight and porous architectures 2021 , 115-141		
278	Current advances in bio-fabricated quantum dots emphasising the study of mechanisms to diversify their catalytic and biomedical applications. <i>Dalton Transactions</i> , 2021 , 50, 14062-14080	4.3	2
277	Mechanical and Acoustic Behavior of 3D-Printed Hierarchical Mathematical Fractal Menger Sponge. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001471	3.5	6
276	Topologically engineered 3D printed architectures with superior mechanical strength. <i>Materials Today</i> , 2021 , 48, 72-72	21.8	5
275	Thermodynamic Optimization of the Ternary Ga-Sn-Te System Using Modified Quasichemical Model. <i>Metals</i> , 2021 , 11, 1363	2.3	0

274	Advance Optical Properties and Emerging Applications of 2D Materials. <i>Frontiers in Materials</i> , 2021 , 8,	4	6
273	Three-dimensional printing of complex graphite structures. <i>Carbon</i> , 2021 , 181, 260-269	10.4	7
272	Quantifying instant water cleaning efficiency using zinc oxide decorated complex 3D printed porous architectures. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126383	12.8	5
271	Thermodynamic modelling of the ternary Bi-Ga-Te system for potential application in thermoelectric materials. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2021 , 74, 102326	1.9	3
270	Emerging two-dimensional tellurides. <i>Materials Today</i> , 2021 ,	21.8	7
269	A perspective on the catalysis using the high entropy alloys. <i>Nano Energy</i> , 2021 , 88, 106261	17.1	12
268	Flexure resistant 3D printed zeolite-inspired structures. <i>Additive Manufacturing</i> , 2021 , 47, 102297	6.1	2
267	Reversible temperature-dependent photoluminescence in semiconductor quantum dots for the development of a smartphone-based optical thermometer. <i>Nanoscale</i> , 2021 , 13, 2946-2954	7.7	10
266	Development of a schwarzite-based moving bed 3D printed water treatment system for nanoplastic remediation.. <i>RSC Advances</i> , 2021 , 11, 19788-19796	3.7	8
265	Convert waste petroleum coke to multi-heteroatom self-doped graphene and its application as supercapacitors. <i>Emergent Materials</i> , 2021 , 4, 531-544	3.5	5
264	Hydrogen Evolution at the In Situ MoO ₃ /MoS ₂ Heterojunctions Created by Nonthermal O ₂ Plasma Treatment. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5333-5342	6.1	11
263	Multi-component (Ag-Au-Cu-Pd-Pt) alloy nanoparticle-decorated p-type 2D-molybdenum disulfide (MoS) for enhanced hydrogen sensing. <i>Nanoscale</i> , 2020 , 12, 11830-11841	7.7	24
262	Shear exfoliation synthesis of large-scale graphene-reinforced nanofibers. <i>Carbon</i> , 2020 , 166, 405-413	10.4	5
261	Extraction of Two-Dimensional Aluminum Alloys from Decagonal Quasicrystals. <i>ACS Nano</i> , 2020 , 14, 7435-7443	16.7	11
260	Formic acid and methanol electro-oxidation and counter hydrogen production using nano high entropy catalyst. <i>Materials Today Energy</i> , 2020 , 16, 100393	7	19
259	Probing the bacterial detoxification of cadmium to form cadmium sulfide quantum dots and the underlying mechanism. <i>Materials Advances</i> , 2020 , 1, 1168-1175	3.3	5
258	High-Entropy Alloys as Catalysts for the CO ₂ and CO Reduction Reactions: Experimental Realization. <i>ACS Catalysis</i> , 2020 , 10, 3658-3663	13.1	95
257	Graphene Supported MoS Structures with High Defect Density for an Efficient HER Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12629-12638	9.5	49

256	Forster resonance energy transfer assisted white light generation and luminescence tuning in a colloidal graphene quantum dot-dye system. <i>Journal of Colloid and Interface Science</i> , 2020 , 565, 326-336	9.3	13
255	Bioinspired Aluminum Composite Reinforced with Soft Polymers with Enhanced Strength and Plasticity. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901116	3.5	1
254	Photo-induced degradation of bio-toxic Ciprofloxacin using the porous 3D hybrid architecture of an atomically thin sulfur-doped g-CN/ZnO nanosheet. <i>Environmental Research</i> , 2020 , 183, 109154	7.9	40
253	Ultra-low density three-dimensional nano-silicon carbide architecture with high temperature resistance and mechanical strength. <i>Carbon</i> , 2020 , 164, 143-149	10.4	2
252	Photocatalytic dye degradation under sunlight irradiation using cerium ion adsorbed two-dimensional graphitic carbon nitride. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103942	6.8	17
251	MoS quantum dots decorated ultrathin NiO nanosheets for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2020 , 566, 411-418	9.3	19
250	Hexagonal boron nitride-carbon nanotube hybrid network structure for enhanced thermal, mechanical and electrical properties of polyimide nanocomposites. <i>Composites Science and Technology</i> , 2020 , 188, 107977	8.6	8
249	Electroreduction of Carbon Dioxide into Selective Hydrocarbons at Low Overpotential Using Isomorphic Atomic Substitution in Copper Oxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 179-189	8.3	3
248	Scale-Enhanced Magnetism in Exfoliated Atomically Thin Magnetite Sheets. <i>Small</i> , 2020 , 16, e2004208	11	6
247	Crystallographic and Morphological Evidence of Solid-Solid Interfacial Energy Anisotropy in the Sn-Zn Eutectic System. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 6387-6405	2.3	4
246	Methanol Electrolysis for Hydrogen Production Using Polymer Electrolyte Membrane: A Mini-Review. <i>Energies</i> , 2020 , 13, 5879	3.1	17
245	Green Route for Beneficiation of Metallic Materials from Electronic Waste for Selective Reduction of CO ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12142-12150	8.3	9
244	Determination of Optimum Process Parameters and Residual Stress in Friction Welding of Thixocast A356 Aluminum Alloy. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 3079-3088	2.5	
243	2D Hexagonal Boron Nitride-Coated Cotton Fabric with Self-Extinguishing Property. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45274-45280	9.5	21
242	Enhancing the oxygen evolution activity of nitrogen-doped graphitic carbon shell-embedded nickel/nickel oxide nanoparticles by surface dissolution. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 3267-3279	7.8	7
241	Nature inspired solid-liquid phase amphibious adhesive. <i>Soft Matter</i> , 2020 , 16, 5854-5860	3.6	2
240	3D carbon coated NiCoS nanowires doped with nitrogen for electrochemical energy storage and conversion. <i>Journal of Colloid and Interface Science</i> , 2019 , 556, 449-457	9.3	15
239	Etching of transition metal dichalcogenide monolayers into nanoribbon arrays. <i>Nanoscale Horizons</i> , 2019 , 4, 689-696	10.8	7

238	Strain-Induced Structural Deformation Study of 2D Mo _x W _(1-x) S ₂ . <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801262	4.6	9
237	On the effect of Re addition on microstructural evolution of a CoNi-based superalloy. <i>Acta Materialia</i> , 2019 , 168, 37-51	8.4	52
236	Stabilization of a Highly Concentrated Colloidal Suspension of Pristine Metallic Nanoparticles. <i>Langmuir</i> , 2019 , 35, 2668-2673	4	12
235	Elastic and Transparent bone-like an electrochemical separator. <i>Materials Today Chemistry</i> , 2019 , 12, 132-138	3.8	3
234	Tailoring of structural and photoluminescence emissions by Mn and Cu co-doping in 2D nanostructures of ZnS for the visualization of latent fingerprints and generation of white light. <i>Nanoscale</i> , 2019 , 11, 2017-2026	7.7	15
233	Boxception: Impact Resistance Structure Using 3D Printing. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900167	3.5	6
232	Interface and defect engineering of hybrid nanostructures toward an efficient HER catalyst. <i>Nanoscale</i> , 2019 , 11, 12489-12496	7.7	18
231	Structure-Dependent Electrical and Magnetic Properties of Iron Oxide Composites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1801004	1.6	3
230	High-K dielectric sulfur-selenium alloys. <i>Science Advances</i> , 2019 , 5, eaau9785	14.3	8
229	Two-Dimensional Amorphous Cr ₂ O ₃ Modified Metallic Electrodes for Hydrogen Evolution Reaction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900025	2.5	11
228	Waste Animal Bone as a Novel Layered Heterogeneous Catalyst for the Transesterification of Biodiesel. <i>Catalysis Letters</i> , 2019 , 149, 1100-1110	2.8	24
227	Direct Ink Writing of Cement Structures Modified with Nanoscale Additive. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801380	3.5	10
226	On the origin of a remarkable increase in the strength and stability of an Al rich Al-Ni eutectic alloy by Zr addition. <i>Acta Materialia</i> , 2019 , 170, 205-217	8.4	39
225	Low Contact Barrier in 2H/1T' MoTe In-Plane Heterostructure Synthesized by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12777-12785	9.5	38
224	Magnetism in two-dimensional materials beyond graphene. <i>Materials Today</i> , 2019 , 27, 107-122	21.8	69
223	Super-elasticity of three-dimensionally cross-linked graphene materials all the way to deep cryogenic temperatures. <i>Science Advances</i> , 2019 , 5, eaav2589	14.3	53
222	Atomically locked interfaces of metal (Aluminum) and polymer (Polypropylene) using mechanical friction. <i>Polymer</i> , 2019 , 169, 148-153	3.9	11
221	On the high temperature coarsening kinetics of σ precipitates in a high strength Co _{37.6} Ni _{35.4} Al _{9.9} Mo _{4.9} Cr _{5.9} Ta _{2.8} Ti _{3.5} fcc-based high entropy alloy. <i>Acta Materialia</i> , 2019 , 177, 82-95	8.4	37

220	Two-Dimensional Lateral Epitaxy of 2H (MoSe)-1T' (ReSe) Phases. <i>Nano Letters</i> , 2019 , 19, 6338-6345	11.5	18
219	Optical Control of Non-Equilibrium Phonon Dynamics. <i>Nano Letters</i> , 2019 , 19, 4981-4989	11.5	18
218	Strain-controlled optical transmittance tuning of three-dimensional carbon nanotube architectures. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1927-1933	7.1	3
217	3D Printed Tubulanes as Lightweight Hypervelocity Impact Resistant Structures. <i>Small</i> , 2019 , 15, e1904747	11.7	13
216	3D Printing: 3D Printed Tubulanes as Lightweight Hypervelocity Impact Resistant Structures (Small 52/2019). <i>Small</i> , 2019 , 15, 1970284	11	1
215	Effects of Cu and In Trace Elements on Microstructure and Thermal and Mechanical Properties of Sn-Zn Eutectic Alloy. <i>Journal of Electronic Materials</i> , 2019 , 48, 2660-2669	1.9	9
214	Fluorinated Boron Nitride Quantum Dots: A New 0D Material for Energy Conversion and Detection of Cellular Metabolism. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1800346	3.1	6
213	High temperature quasistatic and dynamic mechanical behavior of interconnected 3D carbon nanotube structures. <i>Carbon</i> , 2019 , 142, 291-299	10.4	5
212	Polytypism in ultrathin tellurium. <i>2D Materials</i> , 2019 , 6, 015013	5.9	48
211	Graphene as an electrochemical transfer layer. <i>Carbon</i> , 2019 , 141, 266-273	10.4	13
210	Elemental site occupancy in the L12 A3B ordered intermetallic phase in Co-based superalloys and its influence on the microstructure. <i>Acta Materialia</i> , 2019 , 163, 140-153	8.4	40
209	Differences in the Mechanical Properties of Monolayer and Multilayer WSe ₂ /MoSe ₂ . <i>MRS Advances</i> , 2018 , 3, 373-378	0.7	2
208	Structural Phase Transformation in Strained Monolayer MoWSe Alloy. <i>ACS Nano</i> , 2018 , 12, 3468-3476	16.7	38
207	Atomically thin gallium layers from solid-melt exfoliation. <i>Science Advances</i> , 2018 , 4, e1701373	14.3	109
206	Liquid Exfoliation of Icosahedral Quasicrystals. <i>Advanced Functional Materials</i> , 2018 , 28, 1801181	15.6	14
205	Morphology controlled graphene-alloy nanoparticle hybrids with tunable carbon monoxide conversion to carbon dioxide. <i>Nanoscale</i> , 2018 , 10, 8840-8850	7.7	4
204	Deformation Mechanisms of Vertically Stacked WS ₂ /MoS ₂ Heterostructures: The Role of Interfaces. <i>ACS Nano</i> , 2018 , 12, 4036-4044	16.7	35
203	Role of Cu During Sintering of Fe _{0.96} Cu _{0.04} Nanoparticles. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 1410-1424	2.3	3

202	Mechanical Properties of Ultralow Density Graphene Oxide/Polydimethylsiloxane Foams. <i>MRS Advances</i> , 2018 , 3, 61-66	0.7	0
201	Anomalous Number Fluctuation Noise in Localized Transition Metal Dichalcogenide Layers: Generalization of McWhorter's Mechanism. <i>MRS Advances</i> , 2018 , 3, 299-305	0.7	1
200	High stiffness polymer composite with tunable transparency. <i>Materials Today</i> , 2018 , 21, 475-482	21.8	20
199	Origami-Inspired 3D Interconnected Molybdenum Carbide Nanoflakes. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701113	4.6	8
198	Enhancement of High Temperature Strength of 2219 Alloys Through Small Additions of Nb and Zr and a Novel Heat Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 3047-3057	2.3	14
197	Consolidation of functionalized graphene at ambient temperature via mechano-chemistry. <i>Carbon</i> , 2018 , 134, 491-499	10.4	11
196	Hybrid 2D nanostructures for mechanical reinforcement and thermal conductivity enhancement in polymer composites. <i>Composites Science and Technology</i> , 2018 , 159, 103-110	8.6	40
195	New paradigm in advanced composite and nanocomposite design. <i>Reinforced Plastics</i> , 2018 , 62, 263-265	0.9	2
194	Multi-layer graphene reinforced aluminum [Manufacturing of high strength composite by friction stir alloying. <i>Composites Part B: Engineering</i> , 2018 , 136, 63-71	10	99
193	Subsurface deformation studies of aluminium during wear and its theoretical understanding using molecular dynamics. <i>Philosophical Magazine</i> , 2018 , 98, 2680-2700	1.6	3
192	Chromiteen: A New 2D Oxide Magnetic Material from Natural Ore. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800549	4.6	18
191	Characterization of the Hot Deformation Behavior and Microstructure Evolution of a New γ Strengthened Cobalt-Based Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 4895-4905	2.3	16
190	Manufacturing of high strength aluminium composites reinforced with nano tungsten particles for electrical application and investigation on in-situ reaction during processing. <i>Journal of Alloys and Compounds</i> , 2018 , 767, 1072-1082	5.7	21
189	Exfoliation of a non-van der Waals material from iron ore hematite. <i>Nature Nanotechnology</i> , 2018 , 13, 602-609	28.7	179
188	A Non-van der Waals Two-Dimensional Material from Natural Titanium Mineral Ore Ilmenite. <i>Chemistry of Materials</i> , 2018 , 30, 5923-5931	9.6	45
187	Underwater adhesive using solid-liquid polymer mixes. <i>Materials Today Chemistry</i> , 2018 , 9, 149-157	6.2	16
186	Achieving Self-Stiffening and Laser Healing by Interconnecting Graphene Oxide Sheets with Amine-Functionalized Ovalbumin. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800932	4.6	4
185	Poly-albumen: Bio-derived structural polymer from polymerized egg white. <i>Materials Today Chemistry</i> , 2018 , 9, 73-79	6.2	6

184	Synthesis and 3D Interconnected Nanostructured h-BN-Based Biocomposites by Low-Temperature Plasma Sintering: Bone Regeneration Applications. <i>ACS Omega</i> , 2018 , 3, 6013-6021	3.9	18
183	Graphene Oxide Epoxy (GO-xy): GO as Epoxy Adhesive by Interfacial Reaction of Functionalities. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1700657	4.6	14
182	Multiscale Geometric Design Principles Applied to 3D Printed Schwarzites. <i>Advanced Materials</i> , 2018 , 30, 1704820	24	44
181	Quaternary Alloys: Thermally Induced 2D Alloy-Heterostructure Transformation in Quaternary Alloys (Adv. Mater. 45/2018). <i>Advanced Materials</i> , 2018 , 30, 1870344	24	1
180	Colloidal N-Doped Graphene Quantum Dots with Tailored Luminescent Downshifting and Detection of UVA Radiation with Enhanced Responsivity. <i>ACS Omega</i> , 2018 , 3, 16260-16270	3.9	22
179	An Insight into the Phase Transformation of WS upon Fluorination. <i>Advanced Materials</i> , 2018 , 30, e1803366	3.6	15
178	Magnetic Properties and Photocatalytic Applications of 2D Sheets of Nonlayered Manganese Telluride by Liquid Exfoliation. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6427-6434	5.6	19
177	Interconnecting Bone Nanoparticles by Ovalbumin Molecules to Build a Three-Dimensional Low-Density and Tough Material. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41757-41762	9.5	6
176	Telluride-Based Atomically Thin Layers of Ternary Two-Dimensional Transition Metal Dichalcogenide Alloys. <i>Chemistry of Materials</i> , 2018 , 30, 7262-7268	9.6	23
175	Thermally Induced 2D Alloy-Heterostructure Transformation in Quaternary Alloys. <i>Advanced Materials</i> , 2018 , 30, e1804218	24	19
174	Effective Activation Energy for the Solid-State Sintering of Silicon Carbide Ceramics. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 5599-5606	2.3	7
173	Preparation of nanocrystalline high-entropy alloys via cryomilling of cast ingots. <i>Journal of Materials Science</i> , 2018 , 53, 13411-13423	4.3	31
172	One Step Process for Infiltration of Magnetic Nanoparticles into CNT Arrays for Enhanced Field Emission. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701631	4.6	2
171	Role of insert material on process loads during FSW. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 3427-3435	3.2	11
170	Development of a high temperature high strength Al alloy by addition of small amounts of Sc and Mg to 2219 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 687, 221-231	5.3	56
169	Size-dependent solubility and phase transformation behavior of SnO ₂ nanoparticles in an Al matrix. <i>Journal of Materials Science</i> , 2017 , 52, 5194-5207	4.3	3
168	Transient steel quality under non-isothermal conditions in a multi-strand billet caster tundish: part I. Analysis of fluid flow, thermal behaviour and inclusion behaviour. <i>Ironmaking and Steelmaking</i> , 2017 , 44, 403-412	1.3	11
167	High Toughness in Ultralow Density Graphene Oxide Foam. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700030	4.3	15

166	Near white light emission and enhanced photocatalytic activity by tweaking surface defects of coaxial ZnO@ZnS core-shell nanorods. <i>Journal of Applied Physics</i> , 2017 , 121, 144301	2.5	7
165	Magnetic field controlled graphene oxide-based origami with enhanced surface area and mechanical properties. <i>Nanoscale</i> , 2017 , 9, 6991-6997	7.7	29
164	Structural Reinforcement through Liquid Encapsulation. <i>Advanced Materials Interfaces</i> , 2017 , 4, 16007814.6	14.6	6
163	Effect of Cr addition on γ cobalt-based CoMoAlTa class of superalloys: a combined experimental and computational study. <i>Journal of Materials Science</i> , 2017 , 52, 11036-11047	4.3	46
162	Metal Immiscibility Route to Synthesis of Ultrathin Carbides, Borides, and Nitrides. <i>Advanced Materials</i> , 2017 , 29, 1700364	24	38
161	Chemically interconnected light-weight 3D-carbon nanotube solid network. <i>Carbon</i> , 2017 , 119, 142-149	10.4	18
160	Nonlinear Optical Properties and Temperature Dependent Photoluminescence in hBN-GO Heterostructure 2D Material. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8060-8069	3.8	29
159	Velcro-Inspired SiC Fuzzy Fibers for Aerospace Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13742-13750	9.5	16
158	Self-Stiffening Behavior of Reinforced Carbon Nanotubes Spheres. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600756	3.5	8
157	Electronic waste recycling via cryo-milling and nanoparticle beneficiation. <i>Materials Today</i> , 2017 , 20, 67-73	21.8	49
156	Enhancing Mechanical Properties of Nanocomposites Using Interconnected Carbon Nanotubes (iCNT) as Reinforcement. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600499	3.5	4
155	2D Heterostructure coatings of hBN-MoS ₂ layers for corrosion resistance. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 045301	3	10
154	Worm-Shape Pt Nanocrystals Grown on Nitrogen-Doped Low-Defect Graphene Sheets: Highly Efficient Electrocatalysts for Methanol Oxidation Reaction. <i>Small</i> , 2017 , 13, 1603013	11	117
153	Role of Atomic Layer Functionalization in Building Scalable Bottom-Up Assembly of Ultra-Low Density Multifunctional Three-Dimensional Nanostructures. <i>ACS Nano</i> , 2017 , 11, 806-813	16.7	12
152	Multifunctional Hybrids Based on 2D Fluorinated Graphene Oxide and Superparamagnetic Iron Oxide Nanoparticles. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700245	3.1	5
151	Re Doping in 2D Transition Metal Dichalcogenides as a New Route to Tailor Structural Phases and Induced Magnetism. <i>Advanced Materials</i> , 2017 , 29, 1703754	24	130
150	Development of High-Strength High-Temperature Cast Al-Ni-Cr Alloys Through Evolution of a Novel Composite Eutectic Structure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 5940-5950	2.3	12
149	Fluorinated h-BN as a magnetic semiconductor. <i>Science Advances</i> , 2017 , 3, e1700842	14.3	87

148	Phase Segregation Behavior of Two-Dimensional Transition Metal Dichalcogenide Binary Alloys Induced by Dissimilar Substitution. <i>Chemistry of Materials</i> , 2017 , 29, 7431-7439	9.6	22
147	Enhancing elevated temperature strength of copper containing aluminium alloys by forming L1 AlZr precipitates and nucleating δ precipitates on them. <i>Scientific Reports</i> , 2017 , 7, 11154	4.9	24
146	2D Materials: Quaternary 2D Transition Metal Dichalcogenides (TMDs) with Tunable Bandgap (Adv. Mater. 35/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
145	Bacteria as Bio-Template for 3D Carbon Nanotube Architectures. <i>Scientific Reports</i> , 2017 , 7, 9855	4.9	13
144	Nature Inspired Strategy to Enhance Mechanical Properties via Liquid Reinforcement. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700240	4.6	24
143	Quaternary 2D Transition Metal Dichalcogenides (TMDs) with Tunable Bandgap. <i>Advanced Materials</i> , 2017 , 29, 1702457	24	124
142	Lightweight Hexagonal Boron Nitride Foam for CO Absorption. <i>ACS Nano</i> , 2017 , 11, 8944-8952	16.7	42
141	Nanoscale deformation and friction characteristics of atomically thin WSe ₂ and heterostructure using nanoscratch and Raman spectroscopy. <i>2D Materials</i> , 2017 , 4, 045005	5.9	17
140	Effect of Carrier Localization on Electrical Transport and Noise at Individual Grain Boundaries in Monolayer MoS ₂ . <i>Nano Letters</i> , 2017 , 17, 5452-5457	11.5	27
139	Cryo-mediated exfoliation and fracturing of layered materials into 2D quantum dots. <i>Science Advances</i> , 2017 , 3, e1701500	14.3	70
138	Ultrafast non-radiative dynamics of atomically thin MoSe ₂ . <i>Nature Communications</i> , 2017 , 8, 1745	17.4	35
137	Bio-Derived Hierarchical 3D Architecture from Seeds for Supercapacitor Application. <i>Jom</i> , 2017 , 69, 1513-1518	4	
136	One-step electrodeposited 3D-ternary composite of zirconia nanoparticles, rGO and polypyrrole with enhanced supercapacitor performance. <i>Nano Energy</i> , 2017 , 31, 225-232	17.1	61
135	Metal-Free Dual Modal Contrast Agents Based on Fluorographene Quantum Dots. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600221	3.1	20
134	Transient steel quality under non-isothermal conditions in a multi-strand billet caster tundish: part II. Effect of a flow-control device. <i>Ironmaking and Steelmaking</i> , 2017 , 44, 413-420	1.3	10
133	Thermoelectric Properties of Bi Doped Tetrahedrite. <i>Journal of Electronic Materials</i> , 2017 , 46, 2616-2622	1.9	35
132	In Situ Study of High-Temperature Mechanical Properties of Carbon Nanotube Scaffolds. <i>Microscopy and Microanalysis</i> , 2017 , 23, 782-783	0.5	3
131	Ballistic Fracturing of Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24819-25	9.5	13

130	3D Porous Graphene by Low-Temperature Plasma Welding for Bone Implants. <i>Advanced Materials</i> , 2016 , 28, 8959-8967	24	43
129	Enhanced supercapacitor performance of a 3D architecture tailored using atomically thin rGO/MoS ₂ 2D sheets. <i>RSC Advances</i> , 2016 , 6, 93384-93393	3.7	27
128	Temperature- and Size-Dependent Compositionally Tuned Microstructural Landscape for Ag-46 Atom % Cu Nanoalloy Prepared by Laser Ablation in Liquid. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27699-27706	3.8	18
127	High hardness in the biocompatible intermetallic compound Ti ₃ Au. <i>Science Advances</i> , 2016 , 2, e1600319	4.3	34
126	Phase evolution and crystallography of precipitates during decomposition of new tungsten-free Co(Ni)MoAlNb superalloys at elevated temperatures. <i>Journal of Materials Science</i> , 2016 , 51, 7843-7860	4.3	48
125	Numerical simulation of copper recovery from converter slags by the utilisation of spent potlining (SPL) from aluminium electrolytic cells. <i>Canadian Metallurgical Quarterly</i> , 2016 , 55, 251-260	0.9	14
124	Controlled 3D Carbon Nanotube Structures by Plasma Welding. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500755	4.6	21
123	Enhanced nonlinear optical properties of graphene oxide/silver nanocomposites measured by Z-scan technique. <i>RSC Advances</i> , 2016 , 6, 10319-10325	3.7	63
122	Strain Rate Dependent Shear Plasticity in Graphite Oxide. <i>Nano Letters</i> , 2016 , 16, 1127-31	11.5	32
121	Indentation Tests Reveal Geometry-Regulated Stiffening of Nanotube Junctions. <i>Nano Letters</i> , 2016 , 16, 232-6	11.5	12
120	Magnitude and Origin of Electrical Noise at Individual Grain Boundaries in Graphene. <i>Nano Letters</i> , 2016 , 16, 562-7	11.5	28
119	Controllable Codoping of Nitrogen and Sulfur in Graphene for Highly Efficient Li-Oxygen Batteries and Direct Methanol Fuel Cells. <i>Chemistry of Materials</i> , 2016 , 28, 1737-1745	9.6	113
118	On the Structural Stability of Melt Spun Ribbons of Fe ₉₅ Zr _x B ₄ Cu ₁ (x = 7 and 9) Alloys and Correlation with Their Magnetic Properties. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 560-571	2.3	3
117	Stabilization of the high-temperature and high-pressure cubic phase of ZnO by temperature-controlled milling. <i>Journal of Materials Science</i> , 2016 , 51, 126-137	4.3	6
116	Observation of Size-Dependent Electron-Phonon Scattering and Temperature-Dependent Photoluminescence Quenching in Triangular-Shaped Silver Nanoparticles. <i>Plasmonics</i> , 2016 , 11, 593-600	2.4	3
115	Thermoelectric Properties of In-Doped Cu ₂ ZnGeSe ₄ . <i>Journal of Electronic Materials</i> , 2016 , 45, 1625-1632	1.9	13
114	Effects of Minute Addition of Ni on Microstructure and Mechanical Properties of Sn-Zn Eutectic Alloy. <i>Journal of Electronic Materials</i> , 2016 , 45, 5468-5477	1.9	8
113	A Novel Technique of Synthesis of Highly Fluorescent Carbon Nanoparticles from Broth Constituent and In-vivo Bioimaging of <i>C. elegans</i> . <i>Journal of Fluorescence</i> , 2016 , 26, 1541-8	2.4	14

112	Magnetic iron nanoparticles for in vivo targeted delivery and as biocompatible contrast agents. <i>RSC Advances</i> , 2016 , 6, 114344-114352	3.7	8
111	A metal-free electrocatalyst for carbon dioxide reduction to multi-carbon hydrocarbons and oxygenates. <i>Nature Communications</i> , 2016 , 7, 13869	17.4	385
110	Microstructure evolution and thermoelectric properties of Te-poor and Te-rich (Bi,Sb) ₂ Te ₃ prepared via solidification. <i>Journal of Materials Science</i> , 2016 , 51, 7254-7265	4.3	12
109	A generic approach for mechano-chemical reactions between carbonnanotubes of different functionalities. <i>Carbon</i> , 2016 , 104, 196-202	10.4	8
108	Palladium Nanoparticles Supported on Nitrogen and Sulfur Dual-Doped Graphene as Highly Active Electrocatalysts for Formic Acid and Methanol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10858-65	9.5	153
107	Highly ordered carbon-based nanospheres with high stiffness. <i>Carbon</i> , 2016 , 105, 144-150	10.4	8
106	Effect of processing route on the bipolar contribution to the thermoelectric properties of n-type eutectic Bi _{22.5} Sb _{7.5} Te ₇₀ alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 682, 791-798	5.7	11
105	The structural and dynamical aspects of boron nitride nanotubes under high velocity impacts. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14776-81	3.6	13
104	Mechano-chemical stabilization of three-dimensional carbon nanotube aggregates. <i>Carbon</i> , 2016 , 110, 27-33	10.4	19
103	Synthesis and porous h-BN 3D architectures for effective humidity and gas sensors. <i>RSC Advances</i> , 2016 , 6, 87888-87896	3.7	26
102	Template-free hydrothermal synthesis of amphibious fluorescent carbon nanorice towards anti-counterfeiting applications and unleashing its nonlinear optical properties. <i>RSC Advances</i> , 2016 , 6, 99060-99071	3.7	7
101	Blue photoluminescent carbon nanodots from limeade. <i>Materials Science and Engineering C</i> , 2016 , 69, 914-21	8.3	41
100	Synthesis of ultralow density 3D graphene-CNT foams using a two-step method. <i>Nanoscale</i> , 2016 , 8, 15857-63	3.7	36
99	Ambient solid-state mechano-chemical reactions between functionalized carbon nanotubes. <i>Nature Communications</i> , 2015 , 6, 7291	17.4	28
98	Al based ultra-fine eutectic with high room temperature plasticity and elevated temperature strength. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 639, 359-369	5.3	28
97	Morphogenesis and mechanostabilization of complex natural and 3D printed shapes. <i>Science Advances</i> , 2015 , 1, e1400052	14.3	31
96	Morphology control synthesis of AuCu ₂ S metal-semiconductor hybrid nanostructures by modulating reaction constituents. <i>RSC Advances</i> , 2015 , 5, 56629-56635	3.7	3
95	A new class of high strength high temperature Cobalt based σ -CoMoAl alloys stabilized with Ta addition. <i>Acta Materialia</i> , 2015 , 97, 29-40	8.4	112

94	Achieving Highly Efficient, Selective, and Stable CO ₂ Reduction on Nitrogen-Doped Carbon Nanotubes. <i>ACS Nano</i> , 2015 , 9, 5364-71	16.7	451
93	Simple chemical aqueous synthesis of dahlia nanoflower consisting of finger-like ZnO nanorods and observation of stable ultraviolet photoluminescence emission. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 78, 84-89	3.9	12
92	High-Temperature Workability of Thixocast A356 Aluminum Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 3248-3259	2.3	6
91	Carbon Nitrogen Nanotubes as Efficient Bifunctional Electrocatalysts for Oxygen Reduction and Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11991-2000	9.5	103
90	Phase formation and stability of alloy phases in free nanoparticles: some insights. <i>RSC Advances</i> , 2015 , 5, 35541-35550	3.7	14
89	Chemical-free graphene by unzipping carbon nanotubes using cryo-milling. <i>Carbon</i> , 2015 , 89, 217-224	10.4	27
88	Nanosized Pt anchored onto 3D nitrogen-doped graphene nanoribbons towards efficient methanol electrooxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19696-19701	13	49
87	Synthesis of Low-Density, Carbon-Doped, Porous Hexagonal Boron Nitride Solids. <i>ACS Nano</i> , 2015 , 9, 12088-95	16.7	61
86	A new tungsten-free CoAlMoNb-based superalloy. <i>Scripta Materialia</i> , 2015 , 98, 36-39	5.6	111
85	Synthesis of a new tungsten-free γ cobalt-based superalloy by tuning alloying additions. <i>Acta Materialia</i> , 2015 , 85, 85-94	8.4	114
84	Tunability of monodispersed intermetallic AuCu nanoparticles through understanding of reaction pathways. <i>RSC Advances</i> , 2015 , 5, 4389-4395	3.7	16
83	3D macroporous solids from chemically cross-linked carbon nanotubes. <i>Small</i> , 2015 , 11, 688-93	11	41
82	Quantification of the Particle Size and Stability of Graphene Oxide in a Variety of Solvents. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 334-339	3.1	15
81	Chemical Vapor Deposition of Monolayer Rhenium Disulfide (ReS ₂). <i>Advanced Materials</i> , 2015 , 27, 4640-4	8.4	177
80	Nitrogen-Doped Carbon Nanotube Arrays for High-Efficiency Electrochemical Reduction of CO ₂ : On the Understanding of Defects, Defect Density, and Selectivity. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13701-5	16.4	315
79	Zirconia-Nanoparticle-Reinforced Morphology-Engineered Graphene-Based Foams. <i>Advanced Materials</i> , 2015 , 27, 4534-43	24	28
78	Nitrogen-Doped Carbon Nanotube Arrays for High-Efficiency Electrochemical Reduction of CO ₂ : On the Understanding of Defects, Defect Density, and Selectivity. <i>Angewandte Chemie</i> , 2015 , 127, 13905-13909	3.6	78
77	Engineering Photophenomena in Large, 3D Structures Composed of Self-Assembled van der Waals Heterostructure Flakes. <i>Advanced Optical Materials</i> , 2015 , 3, 1551-1556	8.1	14

76	Chemical Makeup and Hydrophilic Behavior of Graphene Oxide Nanoribbons after Low-Temperature Fluorination. <i>ACS Nano</i> , 2015 , 9, 7009-18	16.7	34
75	Effect of Manganese (II) Oxide on microstructure and ionic transport properties of nanostructured cubic zirconia. <i>Electrochimica Acta</i> , 2015 , 170, 360-368	6.7	16
74	Effect of processing route on phase stability in equiatomic multicomponent Ti ₂₀ Fe ₂₀ Ni ₂₀ Co ₂₀ Cu ₂₀ high entropy alloy. <i>Materials Science and Technology</i> , 2015 , 31, 1214-1222	1.5	22
73	Nonlinear Optical Properties and Temperature-Dependent UV ^{vis} Absorption and Photoluminescence Emission in 2D Hexagonal Boron Nitride Nanosheets. <i>Advanced Optical Materials</i> , 2015 , 3, 828-835	8.1	88
72	Density variant carbon nanotube interconnected solids. <i>Advanced Materials</i> , 2015 , 27, 1842-50	24	45
71	Nanodiamond-based thermal fluids. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4778-85	9.5	71
70	Structural Evolution and Phase Stability of Hume-Rothery Phase in a Mechanically Driven Nanostructured Ag-15 at. pct Sn Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 1148-1160	2.3	3
69	Morphology controlled synthesis of wurtzite ZnS nanostructures through simple hydrothermal method and observation of white light emission from ZnO obtained by annealing the synthesized ZnS nanostructures. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4338-4346	7.1	35
68	Length-scale dependent mechanical properties of Al-Cu eutectic alloy: Molecular dynamics based model and its experimental verification. <i>Journal of Applied Physics</i> , 2014 , 115, 203502	2.5	24
67	Effect of thermal annealing on dual photoluminescence emission characteristics of chemically synthesized uncapped Mn ²⁺ doped ZnS quantum dots. <i>Journal of Luminescence</i> , 2014 , 155, 359-367	3.8	14
66	Enhanced field emission properties from CNT arrays synthesized on Inconel superalloy. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1986-91	9.5	50
65	Field emission with ultralow turn on voltage from metal decorated carbon nanotubes. <i>ACS Nano</i> , 2014 , 8, 7763-70	16.7	80
64	Low-density three-dimensional foam using self-reinforced hybrid two-dimensional atomic layers. <i>Nature Communications</i> , 2014 , 5, 4541	17.4	82
63	Observation of Combined Effect of Temperature and Pressure on Cubic to Hexagonal Phase Transformation in ZnS at the Nanoscale. <i>Crystal Growth and Design</i> , 2014 , 14, 4240-4246	3.5	22
62	Unzipping carbon nanotubes at high impact. <i>Nano Letters</i> , 2014 , 14, 4131-7	11.5	55
61	Development of alloys with high strength at elevated temperatures by tuning the bimodal microstructure in the Al ₃ Cu ₂ Ni eutectic system. <i>Scripta Materialia</i> , 2014 , 93, 20-23	5.6	36
60	Synthesis of pure iron magnetic nanoparticles in large quantity. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 385001	3	27
59	The Effect of Minor Addition of Ni on the Microstructural Evolution and Mechanical Properties of Suction Cast Al-0.14 at. pct Sc Binary Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2591-2603	2.3	7

58	Effects of Different Modes of Hot Cross-Rolling in 7010 Aluminum Alloy: Part I. Evolution of Microstructure and Texture. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2746-2763	2.3	13
57	Effects of Different Modes of Hot Cross-Rolling in 7010 Aluminum Alloy: Part II. Mechanical Properties Anisotropy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2764-2777	2.3	17
56	Preparation of Freestanding Zn Nanocrystallites by Combined Milling at Cryogenic and Room Temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 1917-1924	2.3	17
55	Tensile flow and work hardening behavior of hot cross-rolled AA7010 aluminum alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 577, 87-100	5.3	39
54	Ethylenediamine assisted synthesis of wurtzite zinc sulphide nanosheets and porous zinc oxide nanostructures: near white light photoluminescence emission and photocatalytic activity under visible light irradiation. <i>CrystEngComm</i> , 2013 , 15, 5515	3.3	62
53	A simple method of synthesis and optical properties of Mn doped ZnO nanocups. <i>Materials Letters</i> , 2013 , 91, 379-382	3.3	25
52	Synthesis and characterization of Fe- and Co-based ferrite nanoparticles and study of the T 1 and T 2 relaxivity of chitosan-coated particles. <i>Journal of Materials Science</i> , 2013 , 48, 812-818	4.3	10
51	Microstructural and mechanical behavior study of suction cast Nb ₅ Bi binary alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 583, 188-198	5.3	22
50	Room temperature synthesis of Mn ²⁺ doped ZnS d-dots and observation of tunable dual emission: Effects of doping concentration, temperature, and ultraviolet light illumination. <i>Journal of Applied Physics</i> , 2013 , 113, 114308	2.5	41
49	Microstructure and mechanical properties of oxidation resistant suction cast Nb ₅ Bi/Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 74-85	5.3	38
48	Effect of Mg addition on microstructural, mechanical and environmental properties of Nb ₅ Bi eutectic composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 200-207	5.3	12
47	Effect of indium addition on microstructural, mechanical and oxidation properties of suction cast Nb ₅ Bi eutectic alloy. <i>Materials Science and Technology</i> , 2013 , 29, 702-709	1.5	14
46	Superparamagnetic behaviour and T 1, T 2 relaxivity of ZnFe ₂ O ₄ nanoparticles for magnetic resonance imaging. <i>Philosophical Magazine</i> , 2013 , 93, 1771-1783	1.6	14
45	Synthesis of free standing nanocrystalline Cu by ball milling at cryogenic temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 558, 52-58	5.3	28
44	Effect of length scale on mechanical properties of Al-Cu eutectic alloy. <i>Applied Physics Letters</i> , 2012 , 101, 171901	3.4	26
43	Effect of Grain Size on Structural and Magnetic Properties of CuFe ₂ O ₄ Nanograins Synthesized by Chemical Co-Precipitation. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 1839-1843	2	6
42	Microstructure and texture evolution during accumulative roll bonding of aluminium alloys AA2219/AA5086 composite laminates. <i>Journal of Materials Science</i> , 2012 , 47, 6402-6419	4.3	30
41	Grain size effect on the phase transformation temperature of nanostructured CuFe ₂ O ₄ . <i>Journal of Applied Physics</i> , 2011 , 109, 013532	2.5	33

40	Effect of Gallium on microstructure and mechanical properties of NbBi eutectic alloy. <i>Intermetallics</i> , 2011 , 19, 1943-1952	3.5	50
39	Preparation of ultrafine CsCl crystallites by combined cryogenic and room temperature ball milling. <i>Ceramics International</i> , 2011 , 37, 3677-3686	5.1	21
38	Combined Cryo and Room-Temperature Ball Milling to Produce Ultrafine Halide Crystallites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 1127-1137	7.3	22
37	Joining of dissimilar metals: issues and modelling techniques. <i>Science and Technology of Welding and Joining</i> , 2011 , 16, 313-317	3.7	12
36	Onset of sphalerite to wurtzite transformation in ZnS nanoparticles. <i>Journal of Applied Physics</i> , 2011 , 110, 034908	2.5	11
35	Blue orange light emission from biogenic synthesized silver nanoparticles using <i>Trichoderma viride</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 75, 175-8	6	125
34	Synthesis and enhanced green photoluminescence emission from BCT ZnS nanocrystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 1874-1879	1.6	27
33	Magnetic, electric and dielectric properties of FeCo alloy nanoparticles dispersed in amorphous matrix. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 2505-2510	1.6	17
32	Size effect on the lattice parameter of KCl during mechanical milling. <i>Scripta Materialia</i> , 2009 , 61, 600-603	36	26
31	The effect of ball milling on the melting behavior of SnCuAg eutectic alloy. <i>Journal of Materials Science</i> , 2009 , 44, 2257-2263	4.3	9
30	Enhanced visible light emission from Co ²⁺ doped ZnS nanoparticles. <i>Physica B: Condensed Matter</i> , 2009 , 404, 3855-3858	2.8	65
29	Synthesis of wurtzite-phase ZnS nanocrystal and its optical properties. <i>Journal of Luminescence</i> , 2009 , 129, 1366-1370	3.8	44
28	Three-photon-induced four-photon absorption and nonlinear refraction in ZnO quantum dots. <i>Optics Letters</i> , 2009 , 34, 3644-6	3	22
27	Multiphoton absorption and refraction in Mn ²⁺ doped ZnS quantum dots. <i>Journal of Applied Physics</i> , 2009 , 105, 024313	2.5	28
26	High-strength bulk Al-based bimodal ultrafine eutectic composite with enhanced plasticity. <i>Journal of Materials Research</i> , 2009 , 24, 2605-2609	2.5	85
25	Formation of β -Al ₇ Cu ₂ Fe phase during laser processing of quasicrystal-forming AlCuBe alloy. <i>Philosophical Magazine Letters</i> , 2008 , 88, 219-230	1	9
24	Influence of thermodynamics and local geometry on glass formation in Zr based alloys. <i>Applied Physics Letters</i> , 2008 , 93, 061903	3.4	6
23	Effect of aluminum on the hyperfine field and crystallization behaviour of NANOPERM alloy. <i>Hyperfine Interactions</i> , 2008 , 183, 7-15	0.8	2

22	Nonisothermal and Isothermal Oxidation Behavior of Nb-Si-Mo Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 577-592	2.3	33
21	Yellow-orange light emission from Mn ²⁺ -doped ZnS nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 3115-3120	3	100
20	Synthesis and optical characterization of monodispersed Mn ²⁺ doped CdS nanoparticles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 5825-5830	2.3	34
19	Disorder trapping and grain refinement during solidification of undercooled Fe ₈₈ at% Ge melts. <i>Philosophical Magazine</i> , 2007 , 87, 3817-3837	1.6	27
18	Synthesis of bulk metallic glass composites using high oxygen containing Zr sponge. <i>Journal of Materials Science</i> , 2007 , 42, 9359-9365	4.3	10
17	Microstructure and mechanical properties of electron beam weld joints of a Zr ₄₁ Ti ₁₄ Cu ₁₂ Ni ₁₀ Be ₂₃ bulk metallic glass with Zr. <i>Journal of Materials Research</i> , 2007 , 22, 437-444	2.5	7
16	Rapid solidification behaviour of undercooled levitated Fe ₈₀ alloy droplets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 464-467	5.3	26
15	Subsurface deformation during Vickers indentation of bulk metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 1191-1195	5.3	77
14	Microstructure and wear behaviour of aluminium alloys containing embedded nanoscaled lead dispersoids. <i>Acta Materialia</i> , 2004 , 52, 2293-2304	8.4	55
13	Formation and coarsening of a nanodispersed microstructure in melt spun Al ₈₀ Ni ₂₀ Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 255, 107-116	5.3	16
12	Influence of the mechanical and chemical thresholds on the microhardness of ternary chalcogenide glasses. <i>Physica Status Solidi (B): Basic Research</i> , 1996 , 197, 343-348	1.3	2
11	Formation of metastable β phase in mechanically alloyed tellurium-rich Ag ₇₀ Te alloys. <i>Journal of Materials Research</i> , 1995 , 10, 1897-1904	2.5	11
10	On the wear mechanism of iron and nickel based transition metal-metalloid metallic glasses. <i>Acta Metallurgica</i> , 1987 , 35, 1463-1473		35
9	Vacancy ordered phases and one-dimensional quasiperiodicity. <i>Acta Metallurgica</i> , 1987 , 35, 727-733		88
8	Electrooxidation of Hydrazine Utilizing High-Entropy Alloys: Assisting the Oxygen Evolution Reaction at the Thermodynamic Voltage. <i>ACS Catalysis</i> , 14000-14007	13.1	7
7	Stable nanocrystalline structure attainment and strength enhancement of Cu base alloy using bi-modal distributed tungsten dispersoids. <i>Philosophical Magazine</i> , 1-21	1.6	0
6	Nobel Metal Based High Entropy Alloy for Conversion of Carbon Dioxide (CO ₂) to Hydrocarbon		2
5	2D nanomaterials in 3D/4D-printed biomedical devices. <i>Journal of Materials Research</i> , 1	2.5	1

4	Conducting Graphene Synthesis from Electronic Waste. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	1
3	Microstructure and Wear Behaviour of a Novel Fe-Cr-V- C Plasma Transferred Arc Coating. <i>Jom</i> ,1	2.1	0
2	Low-cost high entropy alloy (HEA) for high-efficiency oxygen evolution reaction (OER). <i>Nano Research</i> ,1	10	11
1	Synthesis and Characterization of Biotene: A New 2D Natural Oxide From Biotite. <i>Small</i> ,2201667	11	0