

# Ajeet Srivastav

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1910111/publications.pdf>

Version: 2024-02-01

45  
papers

720  
citations

516710

16  
h-index

552781

26  
g-index

46  
all docs

46  
docs citations

46  
times ranked

886  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic nanowires by electrodeposition within templates. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2364-2379.	1.5	139
2	On Joule heating during spark plasma sintering of metal powders. <i>Scripta Materialia</i> , 2014, 93, 52-55.	5.2	61
3	Graphene from discharged dry cell battery electrodes. <i>Journal of Hazardous Materials</i> , 2019, 366, 358-369.	12.4	45
4	Review: Oxygen-deficient tungsten oxides. <i>Journal of Materials Science</i> , 2021, 56, 6615-6644.	3.7	40
5	Grain-size-dependent non-monotonic lattice parameter variation in nanocrystalline W: The role of non-equilibrium grain boundary structure. <i>Scripta Materialia</i> , 2015, 98, 20-23.	5.2	36
6	Thermodynamic calculation and experimental validation of Hf-rich glass forming compositions in Hf-Cu-Ni system. <i>Journal of Non-Crystalline Solids</i> , 2018, 500, 191-195.	3.1	25
7	Initial-stage Sintering Kinetics of Nanocrystalline Tungsten. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 3863-3866.	2.2	24
8	In-situ $\text{TiO}_2$ TiO <sub>2</sub> rGO nanocomposites for CO gas sensing. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	1.7	23
9	Loading Rate Sensitivity of Jute/Glass Hybrid Reinforced Epoxy Composites: Effect of Surface Modifications. <i>Journal of Reinforced Plastics and Composites</i> , 2007, 26, 851-860.	3.1	21
10	Crystal anisotropy induced temperature dependent magnetization in cobalt nanowires electrodeposited within alumina template. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 349, 21-26.	2.3	20
11	Localized pore evolution assisted densification during spark plasma sintering of nanocrystalline W-5wt.%Mo alloy. <i>Scripta Materialia</i> , 2019, 159, 41-45.	5.2	20
12	Crystallite size induced bandgap tuning in WO <sub>3</sub> derived from nanocrystalline tungsten. <i>Scripta Materialia</i> , 2020, 176, 47-52.	5.2	20
13	Crystallographic-shear-phase-driven W18O <sub>49</sub> nanowires growth on nanocrystalline W surfaces. <i>Scripta Materialia</i> , 2016, 115, 28-32.	5.2	19
14	Graphene/chitosan-functionalized iron oxide nanoparticles for biomedical applications. <i>Journal of Materials Research</i> , 2019, 34, 3389-3399.	2.6	17
15	Estimation of diffusivity from densification data obtained during spark plasma sintering. <i>Scripta Materialia</i> , 2019, 161, 36-39.	5.2	17
16	Molten salt electrolysis of neodymium: electrolyte selection and deposition mechanism. <i>Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy</i> , 2010, 119, 88-92.	0.6	16
17	XRD Characterization of Microstructural Evolution During Mechanical Alloying of W-20wt%Mo. <i>Transactions of the Indian Institute of Metals</i> , 2013, 66, 409-414.	1.5	16
18	Dilatometric analysis on shrinkage behavior during non-isothermal sintering of nanocrystalline tungsten mechanically alloyed with molybdenum. <i>Journal of Alloys and Compounds</i> , 2012, 536, S41-S44.	5.5	15

#	ARTICLE	IF	CITATIONS
19	On correlation between densification kinetics during spark plasma sintering and compressive creep of B2 aluminides. <i>Scripta Materialia</i> , 2015, 107, 63-66.	5.2	15
20	Antioxidant efficacy of chitosan/graphene functionalized superparamagnetic iron oxide nanoparticles. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 154.	3.6	14
21	Effect of Re on microstructural evolution and densification kinetics during spark plasma sintering of nanocrystalline W. <i>Advanced Powder Technology</i> , 2019, 30, 2779-2786.	4.1	14
22	Evolution of morphology and texture during high energy ball milling of Ni and Ni-5 wt%Cu powders. <i>Materials Characterization</i> , 2016, 120, 90-96.	4.4	10
23	Thermodynamic model to predict bulk metallic glass forming composition in Zr-Cu-Fe-Al system and understanding the role of Dy addition. <i>Physica B: Condensed Matter</i> , 2022, 624, 413416.	2.7	10
24	Measurements of the melting points, liquidus, and solidus of the Mo, Ta, and Mo Ta binary alloys using a novel high-speed pyrometric technique. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 93, 105335.	3.8	9
25	Understanding the Growth Mechanism of Hematite Nanoparticles: The Role of Maghemite as an Intermediate Phase. <i>Crystal Growth and Design</i> , 2021, 21, 16-22.	3.0	9
26	Formation of amorphous alumina during sintering of nanocrystalline B2 aluminides. <i>Materials Characterization</i> , 2016, 119, 186-194.	4.4	7
27	Novel coalescence-driven grain-growth mechanism during annealing/spark plasma sintering of NiO nanocrystals. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4973-4977.	5.7	7
28	Graphene-based chemiresistive gas sensors. <i>Comprehensive Analytical Chemistry</i> , 2020, , 149-173.	1.3	6
29	Unveiling the crystallographic origin of mechanochemically induced monoclinic to triclinic phase transformation in $WO_3$ . <i>CrystEngComm</i> , 2021, 23, 1821-1827.	2.6	6
30	On the temperature dependent magnetization in dual-phase Co nanowires confinedly electrodeposited inside nanoporous alumina membrane. <i>Journal of Crystal Growth</i> , 2021, 562, 126084.	1.5	5
31	Understanding the strain-dependent structure of Cu nanocrystals in Ag-Cu nanoalloys. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26165-26177.	2.8	5
32	Nucleation and growth mechanism of Co-Pt alloy nanowires electrodeposited within alumina template. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	4
33	Kinetic Approach to Determine the Glass-Forming Ability in Hf-Based Metallic Glasses. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 1169-1173.	2.2	4
34	Formation mechanism of nanocrystalline W derived cubic-H <sub>0.5</sub> WO <sub>3</sub> . <i>Scripta Materialia</i> , 2022, 208, 114363.	5.2	4
35	Microstructure evolution and densification during spark plasma sintering of nanocrystalline W-5wt.%Ta alloy. <i>Philosophical Magazine Letters</i> , 2020, 100, 442-451.	1.2	3
36	Unraveling the growth mechanism of W <sub>18</sub> O <sub>49</sub> nanowires on W surfaces. <i>CrystEngComm</i> , 2021, 23, 6559-6566.	2.6	3

#	ARTICLE	IF	CITATIONS
37	Tribological and Morphological Evaluation of Ni-P and Ni-P/D Coatings. Materials Science Forum, 0, 969, 73-79.	0.3	2
38	WO <sub>3</sub> .1/3H <sub>2</sub> O nanorods/nanoplates: Growth mechanism and CO <sub>2</sub> uptake. Materialia, 2020, 14, 100943.	2.7	2
39	Kinetics and phase formation during crystallization of Hf <sub>64</sub> Cu <sub>18</sub> Ni <sub>18</sub> amorphous alloy. Phase Transitions, 2021, 94, 110-121.	1.3	2
40	Corrosion Studies of Hf <sub>64</sub> Cu <sub>18</sub> Ni <sub>18</sub> Metallic Glass in Acidic and Alkaline Media. Transactions of the Indian Institute of Metals, 2021, 74, 949-956.	1.5	2
41	Modeling and Theory: general discussion. Faraday Discussions, 2016, 186, 371-398.	3.2	1
42	Applications to Soft Matter: general discussion. Faraday Discussions, 2016, 186, 503-527.	3.2	1
43	Nanocomposites: general discussion. Faraday Discussions, 2016, 186, 277-293.	3.2	1
44	Synthesis of Nanoparticle Assemblies: general discussion. Faraday Discussions, 2016, 186, 123-152.	3.2	0
45	Applicability of $\Gamma^{3*}$ Parameter on Glass Forming Ability of Zr, Ti, Hf-(Cu-Ni)-based Metallic Glasses. Transactions of the Indian Institute of Metals, 2018, 71, 2839-2843.	1.5	0