

Dhananjay Kumar

List of Publications by Year in descending order

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97
papers

2,320
citations

236612

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214527

47
g-index

99
all docs

99
docs citations

99
times ranked

2518
citing authors

#	ARTICLE	IF	CITATIONS
1	Luminescence of pulsed laser deposited Eu doped yttrium oxide films. Applied Physics Letters, 1997, 71, 404-406.	1.5	259
2	Luminescence behavior of pulsed laser deposited Eu:Y2O3 thin film phosphors on sapphire substrates. Applied Physics Letters, 1998, 73, 3058-3060.	1.5	137
3	Low-temperature resistivity minima in colossal magnetoresistive La0.7Ca0.3MnO3 thin films. Physical Review B, 2002, 65, .	1.1	134
4	Pulsed laser deposition of hydroxyapatite thin films. Materials Science and Engineering C, 2007, 27, 484-494.	3.8	113
5	Facile synthesis and morphogenesis of superparamagnetic iron oxide nanoparticles for high-performance supercapacitor applications. New Journal of Chemistry, 2014, 38, 4344-4350.	1.4	108
6	Improved luminescence properties of pulsed laser deposited Eu:Y2O3 thin films on diamond coated silicon substrates. Applied Physics Letters, 1997, 71, 3335-3337.	1.5	107
7	Enhancement of flux pinning in YBa2Cu3O7 δ thin films embedded with epitaxially grown Y2O3 nanostructures using a multi-layering process. Superconductor Science and Technology, 2005, 18, 1502-1505.	1.8	93
8	Rectifying electrical characteristics of La0.7Sr0.3MnO3/ZnO heterostructure. Applied Physics Letters, 2003, 83, 1773-1775.	1.5	91
9	Ferromagnetism in Ni-doped ZnO films: Extrinsic or intrinsic?. Applied Physics Letters, 2009, 94, .	1.5	78
10	Pulsed laser deposition and characterization of high-Tc YBa2Cu3O7 δ x superconducting thin films. Materials Science and Engineering Reports, 1998, 22, 113-185.	14.8	76
11	High coercivity and superparamagnetic behavior of nanocrystalline iron particles in alumina matrix. Journal of Magnetism and Magnetic Materials, 2001, 232, 161-167.	1.0	62
12	Growth and Characterization of Eu δ Y δ 2O3 Thin Film Phosphors on Silicon and Diamond Coated Silicon Substrates. Journal of the Electrochemical Society, 1998, 145, 3456-3462.	1.3	60
13	Thickness dependence of magnetic relaxation and $E \propto \frac{1}{L}$ characteristics in superconducting (Gd-Y)-Ba-Cu-O films with strong vortex pinning. Physical Review B, 2011, 84, .	1.1	60
14	Epitaxial growth of ZnO films on Si(111). Journal of Materials Research, 2002, 17, 2480-2483.	1.2	48
15	Corrosion Protective Conversion Coatings on Magnesium Disks Using a Hydrothermal Technique. Journal of Materials Science and Technology, 2014, 30, 47-53.	5.6	47
16	Self-assembled epitaxial and polycrystalline magnetic nickel nanocrystallites. Applied Physics Letters, 2001, 79, 2817-2819.	1.5	44
17	Enhancement of cathodoluminescent and photoluminescent properties of Eu:Y2O3 luminescent films by vacuum cooling. Applied Physics Letters, 2000, 77, 2518-2520.	1.5	43
18	Magnetic properties of self-assembled nanoscale La2/3Ca1/3MnO3 particles in an alumina matrix. Applied Physics Letters, 2001, 79, 1327-1329.	1.5	43

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19	Unexpected magnetic behavior of Cu-doped CeO ₂ . Applied Physics Letters, 2010, 96, .	1.5	43
20	Effect of Post Heat Treatment on Corrosion Resistance of Phytic Acid Conversion Coated Magnesium. Journal of Materials Science and Technology, 2013, 29, 180-186.	5.6	33
21	Synthesis and atomic-level characterization of Ni nanoparticles in Al ₂ O ₃ matrix. Applied Physics Letters, 2002, 81, 4204-4206.	1.5	32
22	Electrical and optical properties of titanium oxynitride thin films. Journal of Materials Science, 2020, 55, 5123-5134.	1.7	29
23	Formation of self-assembled epitaxial nickel nanostructures. Journal of Applied Physics, 2003, 94, 4841.	1.1	28
24	Pulsed laser deposition assisted novel synthesis of self-assembled magnetic nanoparticles. Composites Part B: Engineering, 2004, 35, 149-155.	5.9	28
25	Progress in Zn-based diluted magnetic semiconductors. Jom, 2009, 61, 72-75.	0.9	28
26	High-Performance Titanium Oxynitride Thin Films for Electrocatalytic Water Oxidation. ACS Applied Energy Materials, 2020, 3, 8366-8374.	2.5	27
27	Effect of Al doping on the magnetic and electrical properties of Zn(Cu)O based diluted magnetic semiconductors. Journal of Applied Physics, 2007, 102, 113908.	1.1	26
28	Silver doping and its influence on the oxygenation during insitu growth of YBa ₂ Cu ₃ O _{7-x} thin films. Journal of Applied Physics, 1994, 76, 1349-1351.	1.1	24
29	Enhancement of critical current density of YBa ₂ Cu ₃ O _{7-x} thin films by self-assembly of Y ₂ O ₃ nanoparticulates. Thin Solid Films, 2007, 515, 6452-6455.	0.8	24
30	Fabrication and Characterization of Magnesium Ferrite-Based PCL/Aloe Vera Nanofibers. Materials, 2017, 10, 937.	1.3	24
31	Enhancement in corrosion resistance and vibration damping performance in titanium by titanium nitride coating. SN Applied Sciences, 2020, 2, 1.	1.5	22
32	Two-dimensional growth model for laser-ablated Ag-doped YBa ₂ Cu ₃ O _{7-x} thin films. Journal of Applied Physics, 1995, 77, 5802-5808.	1.1	20
33	Tunable white light-emission of a CaW _{1-x} Mo _x O ₄ :Tm ³⁺ , Tb ³⁺ , Eu ³⁺ phosphor prepared by a Pechini sol-gel method. Journal of Sol-Gel Science and Technology, 2012, 63, 153-161.	1.1	19
34	Diamagnetic to ferromagnetic switching in VO ₂ epitaxial thin films by nanosecond excimer laser treatment. Applied Physics Letters, 2013, 103, .	1.5	19
35	Effect of substrate temperature on the microstructural properties of titanium nitride nanowires grown by pulsed laser deposition. Journal of Applied Physics, 2014, 116, 064310.	1.1	16
36	Structural and magnetoresistance properties of La _{2/3} Ca _{1/3} MnO ₃ thin films on buffered silicon substrates. Applied Physics Letters, 2001, 78, 1098-1100.	1.5	15

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37	Modulated Magneto-Thermal Response of $\text{La}_{0.85}\text{Sr}_{0.15}\text{MnO}_3$ and $(\text{Ni}_{0.6}\text{Cu}_{0.2}\text{Zn}_{0.2})\text{Fe}_2\text{O}_4$ Composites for Thermal Energy Harvesters. <i>Energy Harvesting and Systems</i> , 2019, 4, 57-65.	1.7	14
38	Integration of epitaxial permalloy on Si (100) through domain matching epitaxy paradigm. <i>Current Opinion in Solid State and Materials Science</i> , 2014, 18, 1-5.	5.6	13
39	Tunable magnetic properties of metal ceramic composite thin films. <i>Solid State Communications</i> , 2001, 119, 63-66.	0.9	12
40	Fabrication, characterization, and mechanism of vertically aligned titanium nitride nanowires. <i>Applied Surface Science</i> , 2012, 260, 36-41.	3.1	12
41	Quantum interference effects in titanium nitride films at low temperatures. <i>Thin Solid Films</i> , 2019, 681, 1-5.	0.8	12
42	Effect of substrate-induced lattice strain on the electrochemical properties of pulsed laser deposited nickel oxide thin film. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 280, 115711.	1.7	12
43	Improved magnetic properties of self-assembled epitaxial nickel nanocrystallites in thin-film ceramic matrix. <i>Journal of Materials Research</i> , 2002, 17, 738-742.	1.2	10
44	Effect of spacer layer thickness on magnetic interactions in self-assembled single domain iron nanoparticles. <i>Journal of Applied Physics</i> , 2008, 103, 07D515.	1.1	10
45	Thermal transport in composites of self-assembled nickel nanoparticles embedded in yttria stabilized zirconia. <i>Applied Physics Letters</i> , 2009, 94, 151913.	1.5	9
46	Magnetic and electrical properties of $\text{Fe}_{90}\text{Ta}_{10}$ thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165446.	1.0	9
47	Magnetic and magnetocaloric properties of Fe_2Ta thin films. <i>AIP Advances</i> , 2020, 10, .	0.6	9
48	Synthesis of high-temperature superconductive and colossal magnetoresistive surfaces on insulating particles. <i>Applied Physics Letters</i> , 1998, 72, 1451-1453.	1.5	8
49	Development of chemically assisted dry etching methods for magnetic device structures. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1999, 17, 3186.	1.6	8
50	Cathodoluminescent properties at nanometer resolution through Z-contrast scanning transmission electron microscopy. <i>Applied Physics Letters</i> , 2000, 77, 594-596.	1.5	8
51	The effect of matrix and substrate on the coercivity and blocking temperature of self-assembled Ni nanoparticles. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	8
52	LaNiO_3 and Cu_3Ge contacts to $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films. <i>Journal of Electronic Materials</i> , 1996, 25, 1760-1766.	1.0	7
53	Characterization of the Chemical Effects of Ceria Slurries for Chemical Mechanical Polishing. <i>Materials Research Society Symposia Proceedings</i> , 2005, 867, 831.	0.1	7
54	Catalyst-assisted epitaxial growth of ferromagnetic TiO_2/TiN nanowires. <i>Acta Materialia</i> , 2019, 167, 112-120.	3.8	7

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55	Synthesis, structure, and biocompatibility of pulsed laser-deposited TiN nanowires for implant applications. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1831-1838.	2.1	6
56	Pulsed laser deposition assisted fabrication and characterization of Fe-Co nanoparticles embedded in TiN thin film matrix. Thin Solid Films, 2013, 534, 561-565.	0.8	6
57	Transparent ferromagnetic and semiconducting behavior in Fe-Dy-Tb based amorphous oxide films. Scientific Reports, 2016, 6, 27869.	1.6	6
58	WEAK-LOCALIZATION EFFECT IN SINGLE CRYSTAL TaN(001) FILMS. Modern Physics Letters B, 2002, 16, 1143-1149.	1.0	5
59	Dependence of grain size and defect density on the magnetic properties of mechanically alloyed Fe ₉₀ W ₁₀ powder. Journal of Applied Physics, 2016, 120, 143903.	1.1	5
60	Effect of thickness on metal-to-semiconductor transition in 2-dimensional TiN thin films. AIP Advances, 2021, 11, 045204.	0.6	5
61	Novel Nanocrystalline Materials by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2000, 617, 1.	0.1	4
62	The Effects of Microstructure on the Brightness of Pulsed Laser Deposited Y ₂ O ₃ :Eu Thin Film Phosphors for Field Emission Displays. Materials Research Society Symposia Proceedings, 2000, 621, 2101.	0.1	4
63	Scaling exponent within the side-jump mechanism of Hall effect size-dependence in Ni nanocrystals. Applied Physics Letters, 2008, 93, 133105.	1.5	4
64	Morphological data on soft ferromagnetic Fe ₉₀ Ta ₁₀ thin films. Data in Brief, 2019, 27, 104714.	0.5	4
65	Influence of Gold Catalyst on the Growth of Titanium Nitride Nanowires. Materials Focus, 2018, 7, 720-725.	0.4	4
66	Role of line-beam on the removal of particulate contaminations from solid surfaces by pulsed laser. Journal of Electronic Materials, 1998, 27, 1104-1106.	1.0	3
67	Modeling of Cathodoluminescence and Photoluminescence Properties of Pulsed Laser-Deposited Europium-Activated Yttrium Oxide thin Film Phosphors. Materials Research Society Symposia Proceedings, 1999, 560, 83.	0.1	3
68	Oxygen Content And Crystallinity Effects in Pulsed Laser Deposited Lanthanum Manganite Thin Films. Materials Research Society Symposia Proceedings, 2000, 617, 1.	0.1	3
69	Ultraviolet-assisted pulsed laser deposition of La _{0.7} Ca _{0.3} MnO ₃ thin films with improved oxygen content, crystallinity and magnetoresistive properties. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 198-201.	0.9	3
70	Intrinsic Room-Temperature Ferromagnetic Properties of Ni-Doped ZnO Thin Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3250-3254.	1.1	3
71	Giant Magnetoresistance Phenomenon in Laser Ablated La _{0.6} y _{0.07} ca _{0.33} mno _x Thin Films. Materials Research Society Symposia Proceedings, 1995, 397, 241.	0.1	2
72	Pulsed Laser Assisted Particulate Cleaning of Solid Surfaces. Materials Research Society Symposia Proceedings, 1997, 477, 475.	0.1	2

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73	Deposition and Characterization of Eu:Y ₂ O ₃ Red Phosphor Thin Films. Materials Research Society Symposia Proceedings, 1997, 471, 299.	0.1	2
74	Cl ₂ -Based Dry Etching of Doped Manganate Perovskites: PrBaCaMnO ₃ and LaSrMnO ₃ . Journal of the Electrochemical Society, 1999, 146, 2748-2751.	1.3	2
75	Epitaxial Growth of Magnetic Nickel Nanodots by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2002, 755, 1.	0.1	2
76	Enhanced Luminescence Properties of Pulsed Laser-Deposited Eu:Y ₂ O ₃ Thin Film Phosphors Using Diamond Buffer Layer. Materials Research Society Symposia Proceedings, 1998, 508, 301.	0.1	1
77	Studies of Dielectric Properties of Pulsed Laser Deposited (Ba, Sr)TiO ₃ Films Using LaNiO ₃ as Conductive Electrode. Materials Research Society Symposia Proceedings, 1998, 541, 41.	0.1	1
78	Luminescence Properties of Pulsed Laser Deposited Eu:Y ₂ O ₃ Thin Film Phosphors on Sapphire Substrates. Materials Research Society Symposia Proceedings, 1998, 526, 317.	0.1	1
79	Fabrication and magneto-transport and SQUID measurements of submicron spin-valve structures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 2471.	1.6	1
80	High Density Dry Etching of (Ba,Sr)TiO ₃ and LaNiO ₃ . Materials Research Society Symposia Proceedings, 1999, 596, 91.	0.1	1
81	Nickel Nanocomposite Thin Films. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	1
82	Growth and Characterization of Titanium Nitride Nanowires on Silicon Substrate Using Pulsed Laser Deposition Method for Biological Applications. , 2013, , .		1
83	Synthesis of high temperature superconductive and colossal magnetoresistive surfaces on insulating particles. Materials Research Society Symposia Proceedings, 1997, 501, 393.	0.1	0
84	Role of Ag in the Epitaxial Growth of Oxide Thin Films. Materials Research Society Symposia Proceedings, 1997, 474, 351.	0.1	0
85	Effects of Magnetic and Non-Magnetic Impurity Addition on Magnetoresistance Behavior of Lanthanum Manganite Thin Films. Materials Research Society Symposia Proceedings, 1999, 562, 87.	0.1	0
86	Role of Silver Doping in the Improvement of Electrical Properties of (Ba,Sr)TiO ₃ Thin Films. Materials Research Society Symposia Proceedings, 1999, 567, 463.	0.1	0
87	Luminescent Characteristics of Pulsed Laser Deposited Epitaxial Eu-Doped Y ₂ O ₃ Films. Materials Research Society Symposia Proceedings, 1999, 574, 11.	0.1	0
88	Dry Etching to form Submicron Features in CMR Oxides: (Pr,Ba,Ca)MnO ₃ and (La,Sr)MnO ₃ . Materials Research Society Symposia Proceedings, 1999, 574, 341.	0.1	0
89	Magnetotransport and Magnetic Properties of La _{0.7} MnO ₃ and Pr _{0.65} Ba _{0.05} Ca _{0.3} MnO ₃ Superlattices. Materials Research Society Symposia Proceedings, 2000, 614, 8121.	0.1	0
90	Modeling of Interface Scattering Effects during Light Emission from Thin Film Phosphors for Field Emission Displays. Materials Research Society Symposia Proceedings, 2000, 621, 261.	0.1	0

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91	Nanometer-Scale Cathodoluminescent Properties Through Z-Contrast Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2000, 6, 130-131.	0.2	0
92	Atomic Structure of Y2O3:Eu/LaAlO3 Interfaces. <i>Microscopy and Microanalysis</i> , 2000, 6, 1058-1059.	0.2	0
93	Tunable Magnetic Properties in Metal Ceramic Composite Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2001, 676, 3171.	0.1	0
94	Pulsed Laser Deposition and Characterization of Zn _{1-x} MnxO Films. <i>Materials Research Society Symposia Proceedings</i> , 2001, 692, 1.	0.1	0
95	Pulsed Laser Deposition Parameter Optimization for Growth of Alumina (Al ₂ O ₃) Thin Film on Silicon (100). <i>Materials Research Society Symposia Proceedings</i> , 2003, 788, 3391.	0.1	0
96	Role of Fe and Ni Nanoparticles on Mechanical Properties of Alumina Thin Films deposited by Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , 2005, 890, 1.	0.1	0
97	Magnetic Properties of Metal-Ceramic Composite Core-Shell Structures Synthesized Using Coprecipitation and Hetero-Coagulation. <i>Ceramic Engineering and Science Proceedings</i> , 0, , 37-52.	0.1	0