

M S Hegde

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Highly recyclable Ti _{0.97} Ni _{0.03} O _{1.97} catalyst coated on cordierite monolith for efficient transformation of arylboronic acids to phenols and reduction of 4-nitrophenol. Dalton Transactions, 2021, 50, 14223-14234.	1.6	4
2	Ligand and Base Free Synthesis of Biaryls from Aryl Halides in Aqueous Media with Recyclable Ti _{0.97} Pd _{0.03} O _{1.97} Catalyst. Catalysis Letters, 2021, 151, 3313-3322.	1.4	3
3	Formation and Structure of Iodine: Water (H ₂ O-I ₂) charge-transfer complex. Journal of Chemical Sciences, 2021, 133, 1.	0.7	3
4	An efficient Ti _{0.95} Cu _{0.05} O _{1.95} catalyst for ipso α hydroxylation of arylboronic acid and reduction of 4-nitrophenol. Journal of Chemical Sciences, 2021, 133, 1.	0.7	0
5	Palladium Ion Catalysed Oxidative C-C Bond Formation Reactions in Arylboronic Acid: Application of Cordierite Monolith Coated Catalyst. Catalysis Letters, 2020, 150, 2911-2927.	1.4	6
6	Recyclable Pd ionic catalyst coated on cordierite monolith for high TOF Heck coupling reaction. Journal of Chemical Sciences, 2019, 131, 1.	0.7	10
7	EXAFS study of Ti _{0.98} Pd _{0.02} O ₂ catalyst. AIP Conference Proceedings, 2018, , .	0.3	2
8	Activation of Oxygen in Ce ₂ Zr ₂ O ₇ across Pyrochlore to Fluorite Structural Transformation: First-Principles Analysis. Journal of Physical Chemistry C, 2017, 121, 1803-1808.	1.5	12
9	High rates of catalytic hydrogen combustion with air over $\text{Ti}_{0.97}\text{Pd}_{0.03}\text{O}_{2-\Delta}$ Ti _{0.97} Pd. Journal of Chemical Sciences, 2017, 129, 1363-1372.	0.7	10
10	Noble metal ions in Ce ₂ and TiO ₂ : synthesis, structure and catalytic properties. RSC Advances, 2015, 5, 94949-94979.	1.7	52
11	Platinum Ion-Doped TiO ₂ : High Catalytic Activity of Pt ²⁺ with Oxide Ion Vacancy in Ti ⁴⁺ Pt ²⁺ O ₂ Compared to Pt ⁴⁺ without Oxide Ion Vacancy in Ti ⁴⁺ Pt ⁴⁺ O ₂ . Chemistry of Materials, 2013, 25, 3822-3832.	3.2	40
12	Sonochemical Synthesis of Pt Ion Substituted TiO ₂ (Ti _{0.9} Pt _{0.1} O ₂): A High Capacity Anode Material for Lithium Battery. Journal of the Electrochemical Society, 2012, 159, A1189-A1197.	1.3	5
13	Activation of Lattice Oxygen of TiO ₂ by Pd ²⁺ Ion: Correlation of Low-Temperature CO and Hydrocarbon Oxidation with Structure of Ti _{1-x} Pd _x O ₂ (x = 0.01-0.03). Chemistry of Materials, 2012, 24, 4491-4502.	3.2	45
14	Preferential oxidation of CO on Ni/CeO ₂ catalysts in the presence of excess H ₂ and CO ₂ . Reaction Kinetics, Mechanisms and Catalysis, 2012, 107, 405-419.	0.8	12
15	Direct evidence of redox interaction between metal ion and support oxide in Ce _{0.98} Pd _{0.02} O ₂ by a combined electrochemical and XPS study. Dalton Transactions, 2011, 40, 11480.	1.6	20
16	Ru ⁺ ion in CeO ₂ (Ce _{0.95} Ru _{0.05} O ₂): A non-deactivating, non-platinum catalyst for water gas shift reaction. Journal of Chemical Sciences, 2011, 123, 577-592.	0.7	18
17	NO Reduction Over Noble Metal Ionic Catalysts. Catalysis Surveys From Asia, 2011, 15, 181-199.	1.0	32
18	Electrocatalysis and redox behavior of Pt ²⁺ ion in CeO ₂ and Ce _{0.85} Ti _{0.15} O ₂ : XPS evidence of participation of lattice oxygen for high activity. Journal of Solid State Electrochemistry, 2011, 15, 2185-2197.	1.2	26

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19	CO adsorption on ionic Pt, Pd and Cu sites in $Ce_{1-x}M_xO_2$ ($M = Pt^{2+}, Pd^{2+}, Cu^{2+}$). Journal of Chemical Sciences, 2011, 123, 509-516.	0.7	25
20	$Ce_{0.98}Pd_{0.02}O_2$: Recyclable, ligand free palladium(II) catalyst for Heck reaction. Journal of Chemical Sciences, 2011, 123, 47-54.	0.7	26
21	A mechanistic model for the water-gas shift reaction over noble metal substituted ceria. AIChE Journal, 2010, 56, 1315-1324.	1.8	6
22	Pt^{2+} Dispersed in $Ce_{0.83}Ti_{0.15}O_2$: Significant Improvement in PROX Activity by Ti Substitution in CeO_2 in Hydrogen Rich Stream. Catalysis Letters, 2010, 134, 330-336.	1.4	9
23	Fermi level depinning at the germanium Schottky interface through sulfur passivation. Applied Physics Letters, 2010, 96, .	1.5	59
24	Sonochemical Synthesis of Thermally Stable Hierarchical $Ce_{1-x}M_xO_2$ ($M = Pt$ or Pd , $0 \leq x \leq 0.10$) Nanocrystallites: Redox Properties and Methanol Electro-Oxidation Activity. Crystal Growth and Design, 2010, 10, 2995-3004.	1.4	24
25	Structure of $Ce_{1-x}Sn_xO_2$ and its relation to oxygen storage property from first-principles analysis. Journal of Chemical Physics, 2010, 132, 194702.	1.2	32
26	$Ce_{0.67}Cr_{0.33}O_{2.11}$: A New Low-Temperature O_2 Evolution Material and H_2 Generation Catalyst by Thermochemical Splitting of Water. Chemistry of Materials, 2010, 22, 762-768.	3.2	63
27	Correlation of Oxygen Storage Capacity and Structural Distortion in Transition-Metal-, Noble-Metal-, and Rare-Earth-Ion-Substituted CeO_2 from First Principles Calculation. Chemistry of Materials, 2010, 22, 5184-5198.	3.2	190
28	Sonochemical synthesis of $Ce_{1-x}Fe_xO_2$ ($0 \leq x \leq 0.45$) and $Ce_{0.65}Fe_{0.33}Pd_{0.02}O_2$ nanocrystallites: oxygen storage material, CO oxidation and water gas shift catalyst. Dalton Transactions, 2010, 39, 10768.	1.6	32
29	Magneto-structural study of a Cr-doped $CaRuO_3$. Journal of Physics Condensed Matter, 2009, 21, 326001.	0.7	3
30	Origin of activation of Lattice Oxygen and Synergistic Interaction in Bimetal-Ionic $Ce_{0.89}Fe_{0.1}Pd_{0.01}O_2$ Catalyst. Chemistry of Materials, 2009, 21, 4880-4891.	3.2	91
31	Nondeactivating Nanosized Ionic Catalysts for Water-Gas Shift Reaction. Industrial & Engineering Chemistry Research, 2009, 48, 6535-6543.	1.8	39
32	Structural Investigation of Activated Lattice Oxygen in $Ce_{1-x}Sn_xO_2$ and $Ce_{1-x}Sn_xPd_yO_2$ by EXAFS and DFT calculation. Chemistry of Materials, 2009, 21, 5836-5847.	3.2	63
33	Noble Metal Ionic Catalysts. Accounts of Chemical Research, 2009, 42, 704-712.	7.6	311
34	High Oxygen Storage Capacity and High Rates of CO Oxidation and NO Reduction Catalytic Properties of $Ce_{1-x}Sn_xO_2$ and $Ce_{0.78}Sn_{0.2}Pd_{0.02}O_2$. Journal of Physical Chemistry C, 2009, 113, 4059-4068.	1.5	151
35	Pt metal- CeO_2 interaction: Direct observation of redox coupling between $Pt/Pt^{2+}/Pt^{4+}$ and Ce^{4+}/Ce^{3+} states in $Ce_{0.98}Pt_{0.02}O_2$ catalyst by a combined electrochemical and x-ray photoelectron spectroscopy study. Journal of Chemical Physics, 2009, 130, 114706.	1.2	42
36	$Ce_{1-x}Ru_xO_2$ ($x=0.05, 0.10$): A New High Oxygen Storage Material and Pt, Pd-Free Three-Way Catalyst. Chemistry of Materials, 2009, 21, 3337-3345.	3.2	81

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37	Noble metal ionic catalysts: correlation of increase in CO oxidation activity with increasing effective charge on Pd ion in Pd ion substituted $Ce_{1-x}M_xO_{2+\delta}$ (M = Ti, Zr and Tj) DOI: 10.1016/j.chemmat.2007.08.014	3.2	64
38	$Ce_{2/3}Cr_{1/3}O_{2+y}$: A New Oxygen Storage Material Based on the Fluorite Structure. <i>Chemistry of Materials</i> , 2008, 20, 7268-7273.	1.8	21
39	Selective Catalytic Reduction of NOx: Mechanistic Perspectives on the Role of Base Metal and Noble Metal Ion Substitution. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 9240-9247.	1.2	20
40	Local structure of Pt and Pd ions in $Ce_{1-x}Ti_xO_2$: X-ray diffraction, x-ray photoelectron spectroscopy, and extended x-ray absorption fine structure. <i>Journal of Chemical Physics</i> , 2008, 128, 124711.	1.5	227
41	Low-Temperature Selective Catalytic Reduction of NO with NH_3 over $Ti_{0.9}M_{0.1}O_{2-\delta}$ (M = Cr, Mn, Fe, Co, Cu). <i>Journal of Physical Chemistry C</i> , 2008, 112, 6002-6012.	1.8	18
42	Kinetics of Photocatalytic Reduction of NO by CO with Pd ²⁺ -Ion-Substituted Nano-TiO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 5798-5802.	3.2	97
43	Hydrogen Spillover on CeO_2/Pt : Enhanced Storage of Active Hydrogen. <i>Chemistry of Materials</i> , 2007, 19, 6430-6436.	1.5	60
44	Creation of Redox Adsorption Sites by Pd ²⁺ -Ion Substitution in nanoTiO ₂ for High Photocatalytic Activity of CO Oxidation, NO Reduction, and NO Decomposition. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8153-8160.	1.2	69
45	Oxygen-Release/Storage Properties of $Ce_{0.5}M_{0.5}O_2$ (M = Zr, Hf) Oxides: An Interplay of Crystal Chemistry and Electronic Structure. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5149-5154.	1.5	60
46	Higher Catalytic Activity of Nano- $Ce_{1-x}Ti_xPd_yO_2$ Compared to Nano- $Ce_{1-x}Pd_xO_2$ for CO Oxidation and N ₂ O and NO Reduction by CO: Role of Oxide Ion Vacancy. <i>Journal of Physical Chemistry C</i> , 2007, 111, 830-839.	3.2	173
47	Origin of Enhanced Reducibility/Oxygen Storage Capacity of $Ce_{1-x}Ti_xO_2$ Compared to CeO_2 or TiO_2 . <i>Chemistry of Materials</i> , 2006, 18, 3249-3256.	1.2	80
48	Enhanced Reducibility of $Ce_{1-x}Ti_xO_2$ Compared to That of CeO_2 and Higher Redox Catalytic Activity of $Ce_{1-x}Ti_xPt_yO_2$ Compared to That of $Ce_{1-x}Pt_xO_2$. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5262-5272.	1.4	102
49	Reducibility of $Ce_{1-x}Zr_xO_2$: Origin of Enhanced Oxygen Storage Capacity. <i>Catalysis Letters</i> , 2006, 108, 165-172.	1.4	25
50	Single step direct coating of 3-way catalysts on cordierite monolith by solution combustion method: High catalytic activity of $Ce_{0.98}Pd_{0.02}O_2$. <i>Catalysis Letters</i> , 2006, 112, 69-75.	0.8	5
51	Solution-combustion synthesis of $Bi_{1-x}Ln_xO_{1.5}$ (Ln = Y and La-Yb) oxide ion conductors. <i>Bulletin of Materials Science</i> , 2006, 29, 339-345.	0.7	17
52	Design and fabrication of an automated temperature programmed reaction system to evaluate 3-way catalysts $Ce_{1-x}La_yPt_zO_{2-\delta}$. <i>Journal of Chemical Sciences</i> , 2006, 118, 47-55.	0.1	0
53	Synthesis, Phase Stability, and Electrochemically Driven Transformations in the $LiCuO_2 \leftrightarrow Li_2CuO_2$ System. <i>ChemInform</i> , 2005, 36, no.		
54	Synthesis, structure and photocatalytic activity of nano TiO ₂ and nano $Ti_{1-x}M_xO_2$ (M = Cu, Fe, Pt, Pd.) DOI: 10.1016/j.chemmat.2007.08.014	0.9	29

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55	A sealed, starved-electrolyte nickel/iron battery. <i>Journal of Applied Electrochemistry</i> , 2005, 35, 27-32.	1.5	28
56	Fabrication of cerium-doped LaNiO ₃ thin films on LaAlO ₃ (100) substrate by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2005, 98, 093527.	1.1	10
57	Synthesis, Phase Stability, and Electrochemically Driven Transformations in the LiCuO ₂ ~Li ₂ CuO ₂ System. <i>Chemistry of Materials</i> , 2005, 17, 4406-4415.	3.2	32
58	Electrical transport properties of LaNi _{1-x} M _x O ₃ (M = Co, Mn) thin films fabricated by pulsed laser deposition. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 6445-6458.	0.7	10
59	Neutron scattering study of combustion-synthesized Ce _{1-x} Cu _x O ₂ . <i>Pramana - Journal of Physics</i> , 2004, 63, 245-249.	0.9	0
60	Ce _{1-x} Rh _x O ₂ ~Solid Solution Formation in Combustion-Synthesized Rh/CeO ₂ Catalyst Studied by XRD, TEM, XPS, and EXAFS. <i>Chemistry of Materials</i> , 2004, 16, 2317-2328.	3.2	134
61	Synthesis and Structure of Nanocrystalline TiO ₂ with Lower Band Gap Showing High Photocatalytic Activity. <i>Langmuir</i> , 2004, 20, 2900-2907.	1.6	519
62	Structure and Photocatalytic Activity of Ti _{1-x} M _x O ₂ (M = W, V, Ce, Zr, Fe, and Cu) Synthesized by Solution Combustion Method. <i>Journal of Physical Chemistry B</i> , 2004, 108, 20204-20212.	1.2	536
63	Photocatalytic Degradation of Organic Compounds over Combustion-Synthesized Nano-TiO ₂ . <i>Environmental Science & Technology</i> , 2004, 38, 1600-1604.	4.6	281
64	Low temperature synthesis of layered Na _x CoO ₂ and K _x CoO ₂ from NaOH/KOH fluxes and their ion exchange properties. <i>Journal of Chemical Sciences</i> , 2003, 115, 447-457.	0.7	11
65	Ionic Dispersion of Pt over CeO ₂ by the Combustion Method: Structural Investigation by XRD, TEM, XPS, and EXAFS. <i>ChemInform</i> , 2003, 34, no.	0.1	1
66	Ionic Dispersion of Pt over CeO ₂ by the Combustion Method: Structural Investigation by XRD, TEM, XPS, and EXAFS. <i>Chemistry of Materials</i> , 2003, 15, 2049-2060.	3.2	309
67	Kinetics of Catalytic Degradation of Polycarbonate in Benzene. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 687-691.	1.8	18
68	Promoting Effect of CeO ₂ in Combustion Synthesized Pt/CeO ₂ Catalyst for CO Oxidation. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6122-6130.	1.2	273
69	Pd-coated Ni nanoparticles by the polyol method: an efficient hydrogenation catalyst. <i>Journal of Materials Chemistry</i> , 2002, 12, 3147-3151.	6.7	34
70	Structural Investigation of Combustion Synthesized Cu/CeO ₂ Catalysts by EXAFS and Other Physical Techniques: Formation of a Ce _{1-x} Cu _x O ₂ ~Solid Solution. <i>Chemistry of Materials</i> , 2002, 14, 3591-3601.	3.2	270
71	Formation of Ce _{1-x} Pd _x O ₂ ~Solid Solution in Combustion-Synthesized Pd/CeO ₂ Catalyst: XRD, XPS, and EXAFS Investigation. <i>Chemistry of Materials</i> , 2002, 14, 2120-2128.	3.2	334
72	Hexamethylenetetramine: A New Fuel for Solution Combustion Synthesis of Complex Metal Oxides. <i>Journal of Materials Synthesis and Processing</i> , 2002, 10, 135-141.	0.3	62

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73	Synthesis, structure and magnetic properties of $\text{Ln}_1 \text{A}_x \text{MnO}_3$ (Ln = Pr, Nd; A = Na, K) from NaCl or KCl flux. <i>Journal of Materials Chemistry</i> , 2001, 11, 2572-2579.	6.7	17
74	Promoting effect of CeO ₂ in a Cu/CeO ₂ catalyst: lowering of redox potentials of Cu species in the CeO ₂ matrix. <i>Chemical Communications</i> , 2001, , 927-928.	2.2	69
75	Ceria-Supported Platinum as Hydrogen-Oxygen Recombinant Catalyst for Sealed Lead-Acid Batteries. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, A23.	2.2	29
76	Epitaxial oxide thin films by pulsed laser deposition: Retrospect and prospect. <i>Journal of Chemical Sciences</i> , 2001, 113, 445-458.	0.7	25
77	Magnetotransport properties in thin films of charge-ordered materials. <i>Journal of Applied Physics</i> , 2001, 89, 8057-8060.	1.1	5
78	Influence of cuprate spacer layer on electrical and magnetic properties of $\text{La}_{0.6}\text{Pb}_{0.4}\text{MnO}_3/\text{La}_4\text{BaCu}_5\text{O}_{13+x}$ multilayers. <i>Physical Review B</i> , 2001, 63, .	1.1	8
79	Thermal behaviour of hydroxides, hydroxysalts and hydrotalcites. <i>Bulletin of Materials Science</i> , 2000, 23, 141-145.	0.8	70
80	Enhancement of magnetoresistance in manganite multilayers. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 2921-2926.	1.3	25
81	NO reduction, CO and hydrocarbon oxidation over combustion synthesized Ag/CeO ₂ catalyst. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3715-3719.	1.3	82
82	Oxidation of CH ₄ and C ₃ H ₈ over combustion synthesized nanosize metal particles supported on $\gamma\text{-Al}_2\text{O}_3$. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 373-378.	1.3	26
83	Electrical resistivity and enhanced magnetoresistance in $(\text{La}_{0.6}\text{Pb}_{0.4}\text{MnO}_3/\text{La}_{0.85}\text{MnO}_3)^n$ superlattices. <i>Journal of Applied Physics</i> , 1999, 85, 1058-1062.	1.1	21
84	Anisotropic electrical transport property in $\text{La}_4\text{BaCu}_5\text{O}_{13+\delta}$ and $\text{La}_4\text{BaCu}_4\text{NiO}_{13+\delta}$ epitaxial thin films. <i>Applied Physics Letters</i> , 1999, 75, 1598-1600.	1.5	7
85	Combustion synthesis of nanometal particles supported on $\gamma\text{-Al}_2\text{O}_3$: CO oxidation and NO reduction catalysts. <i>Journal of Materials Chemistry</i> , 1999, 9, 1801-1806.	6.7	55
86	Low temperature synthesis, structure and properties of $\text{La}_4\text{BaCu}_5\text{O}_{13+\delta}$ (M=Ni, Co and Fe). <i>Journal of Materials Chemistry</i> , 1998, 8, 2695-2700.	6.7	14
87	Structure of the Benzene- I_2 Complex: A UVPES and ab Initio Molecular Orbital Study. <i>Journal of Physical Chemistry A</i> , 1998, 102, 532-536.	1.1	28
88	Ni ₂ Mo ₃ N: A New Ternary Interstitial Nitride with a Filled $\gamma\text{-Manganese}$ Structure. <i>Inorganic Chemistry</i> , 1998, 37, 4128-4130.	1.9	39
89	Synthesis, structure and properties of a new ternary interstitial nitride: Ni ₂ W ₃ N. <i>Journal of Materials Chemistry</i> , 1998, 8, 1435-1440.	6.7	12
90	Zero-bias conductance and energy gap measurements in junctions. <i>Superconductor Science and Technology</i> , 1998, 11, 766-769.	1.8	0

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91	Transport properties and colossal magnetoresistance in epitaxial La _{0.67} Cd _{0.33} MnO ₃ thin film. Applied Physics Letters, 1997, 71, 2701-2703.	1.5	16
92	Colossal magnetoresistance in epitaxial La(1-x)yNayMnO ₃ thin film. Applied Physics Letters, 1997, 70, 2909-2911.	1.5	71
93	Electron States of 1:2 Addition Compounds of TiCl ₄ with Diethyl Ether and Diethyl Sulfide: Hel Photoelectron and Electron Energy Loss Spectroscopy Studies. Journal of Physical Chemistry A, 1997, 101, 1680-1683.	1.1	2
94	UV-PES and ab Initio Molecular Orbital Studies on the Electron Donor-Acceptor Complexes of Bromine with Methylamines. Journal of Physical Chemistry A, 1997, 101, 1155-1159.	1.1	12
95	Influence of Growth Parameters on the Surface and Interface Quality of Laser Deposited InSb/CdTe Heterostructures. Physica Status Solidi A, 1997, 163, 93-100.	1.7	8
96	Pulsed laser deposition of indium antimonide. Bulletin of Materials Science, 1996, 19, 123-129.	0.8	5
97	Synthesis, structure and IR absorption studies of LnBaCuCoO ₅ (Ln=rare earth) oxides. Bulletin of Materials Science, 1996, 19, 607-613.	0.8	3
98	LaNiO ₃ : A promising material for contact with YBa ₂ Cu ₃ O _{7-x} thin films. Journal of Superconductivity and Novel Magnetism, 1996, 9, 17-18.	0.5	0
99	Electron states of benzene-Br ₂ donor-acceptor complex: Hel photoelectron spectroscopy and ab initio molecular orbital study. Journal of Chemical Physics, 1996, 105, 4395-4396.	1.2	4
100	Nonresonant microwave absorption studies of surface passivation of superconducting YBa ₂ Cu ₃ O _{7-x} thin films. Applied Physics Letters, 1995, 66, 1995-1997.	1.5	16
101	Ferroelectric properties of Bi ₂ VO _{5.5} thin films on LaAlO ₃ and SiO ₂ /Si substrates with LaNiO ₃ base electrode. Journal of Applied Physics, 1995, 78, 1160-1164.	1.1	20
102	Surface resistance and residual losses of Ag-doped YBa ₂ Cu ₃ O _{7-x} thin films on sapphire. Journal of Applied Physics, 1995, 77, 4116-4118.	1.1	12
103	Optical spectroscopy study of the role of Ag in laser ablated YBa ₂ Cu ₃ O _{7-x} thin films. Journal of Applied Physics, 1995, 78, 5204-5205.	1.1	7
104	Enhanced magnetoresistance in as-deposited oxygen-deficient La _{0.6} Pb _{0.4} MnO _{3-x} thin films. Journal of Applied Physics, 1995, 78, 6861-6863.	1.1	39
105	Microstructural Studies of Ferroelectric Bi ₂ VO _{5.5} Thin Films With LaNiO ₃ Electrodes. Materials Research Society Symposia Proceedings, 1994, 341, 399.	0.1	1
106	Growth and characterization of laser-deposited Ag-doped YBa ₂ Cu ₃ O _{7-x} thin films on bare sapphire. Bulletin of Materials Science, 1994, 17, 625-632.	0.8	6
107	Growth and applications of superconducting and nonsuperconducting oxide epitaxial films. Bulletin of Materials Science, 1994, 17, 1287-1297.	0.8	0
108	Ferromagnetic La _{0.6} Pb _{0.4} MnO ₃ thin films with giant magnetoresistance at 300 K. Journal of Applied Physics, 1994, 76, 3923-3925.	1.1	106

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109	Line shapes of field-dependent nonresonant microwave and rf absorption in high-T _c superconductors. Journal of Applied Physics, 1994, 75, 4131-4136.	1.1	23
110	Epitaxial LaNiO ₃ thin films: A normal metal barrier for SNS junction. Journal of Materials Research, 1994, 9, 898-902.	1.2	14
111	Reactivity and catalytic activity of layered YBa ₂ Cu ₃ O _{7-δ} (123) type defect perovskites. Journal of Chemical Sciences, 1994, 106, 1363-1373.	0.7	2
112	Epitaxial metallic LaNiO ₃ thin films grown by pulsed laser deposition. Applied Physics Letters, 1993, 62, 1233-1235.	1.5	139
113	Comparison of the effect of processing parameters and degradation on the DC and microwave properties of thin films and polycrystalline bulk high-T _c superconducting materials. Superconductor Science and Technology, 1993, 6, 402-407.	1.8	1
114	Growth and ferroelectric properties of Bi ₂ VO ₅ thin films with metallic LaNiO ₃ electrodes. Applied Physics Letters, 1993, 63, 1898-1900.	1.5	69
115	Critical-current variation with Pr content in Y _{1-x} Pr _x Ba ₂ Cu ₃ O ₇ epitaxial films. Physical Review B, 1993, 48, 6465-6469.	1.1	7
116	Design and fabrication of an automated thermal desorption gas-solid reaction system: Oxidation of ammonia and methanol over YBa ₂ Cu ₃ O _{7-δ} (123) oxide systems. Journal of Chemical Sciences, 1992, 104, 591-601.	0.7	7
117	Coadsorption of barium and oxygen on nickel effect on oxide nucleation: Photoelectron spectroscopic studies. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 1680-1683.	0.9	6
118	Photoelectron spectrum of the Xe...HCl van der Waals molecule. Journal of Chemical Physics, 1991, 94, 4680-4681.	1.2	9
119	Design and fabrication of an indigenous molecular beam ultraviolet photoelectron spectrometer. Journal of Chemical Sciences, 1991, 103, 591-597.	0.7	4
120	Surface layers on superconducting YBa ₂ Cu ₃ O ₇ films studied with x-ray photoelectron spectroscopy. Journal of Applied Physics, 1990, 67, 7483-7487.	1.1	29
121	Enhanced electronic properties of GaAs surfaces chemically passivated by selenium reactions. Journal of Applied Physics, 1990, 67, 586-588.	1.1	97
122	Epitaxial YBa ₂ Cu ₃ O _{7-δ} /Y _{1-x} Pr _x Ba ₂ Cu ₃ O _{7-δ} heterostructures. Applied Physics Letters, 1990, 56, 391-393.	1.5	84
123	Epitaxial relations between in situ superconducting YBa ₂ Cu ₃ O _{7-δ} thin films and BaTiO ₃ /MgAl ₂ O ₄ /Si substrates. Journal of Applied Physics, 1990, 68, 1772-1776.	1.1	18
124	Flux creep and the nature of a flux bundle in high-T _c thin films. Physical Review B, 1990, 41, 4834-4837.	1.1	14
125	Microwave properties of highly oriented YBa ₂ Cu ₃ O _{7-δ} thin films. Applied Physics Letters, 1990, 56, 1178-1180.	1.5	127
126	BaBiO ₃ and the effect of potassium substitution using photoemission. Physical Review B, 1990, 41, 4066-4071.	1.1	21

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127	Bismuth cuprate high-T _c superconductors using cationic substitution. Physical Review B, 1989, 39, 4316-4326.	1.1	173
128	Doping mechanism in Bi(Pb)SrCaCuO superconductors. Journal of Applied Physics, 1989, 66, 4878-4885.	1.1	36
129	Microstructure of insitu epitaxially grown superconducting YBaCuO thin films. Applied Physics Letters, 1989, 54, 1702-1704.	1.5	78
130	Optical spectroscopy: An insitu diagnostic for pulsed laser deposition of high T _c superconducting thin films. Applied Physics Letters, 1989, 54, 179-181.	1.5	125
131	Ferrimagnetic rare earth orthoferrites: A new, magnetic substrate for the growth of epitaxial YBaCuO thin films. Applied Physics Letters, 1989, 55, 1138-1140.	1.5	26
132	Electronic structure of high-T _c Ba _{0.6} K _{0.4} BiO ₃ by x-ray photoelectron spectroscopy. Physical Review B, 1989, 39, 4752-4755.	1.1	54
133	Raman scattering investigation of a single crystal like YBa ₂ Cu ₃ O _{7-x} film. Journal of Applied Physics, 1989, 65, 4452-4453.	1.1	8
134	Structure and stability of passivating arsenic sulfide phases on GaAs surfaces. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1989, 7, 841.	1.6	104
135	Fabrication of heteroepitaxial YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O _{7-x} /YBa ₂ Cu ₃ O _{7-x} Josephson devices grown by laser deposition. Applied Physics Letters, 1989, 55, 2032-2034.	1.5	217
136	Electronic passivation of GaAs surfaces through the formation of arsenic-sulfur bonds. Applied Physics Letters, 1989, 54, 362-364.	1.5	180
137	High temperature superconductivity in ultrathin films of Y ₁ Ba ₂ Cu ₃ O _{7-x} . Applied Physics Letters, 1989, 54, 581-583.	1.5	228
138	Resonant-photoemission study of Ba _{0.6} K _{0.4} BiO ₃ . Physical Review B, 1989, 39, 7359-7362.	1.1	26
139	X-ray-absorption study of charge-density ordering in (Ba _{1-x} K _x)BiO ₃ . Physical Review B, 1989, 40, 8828-8833.	1.1	62
140	Evidence for holes on oxygen in some nickel oxides. Journal of Physics Condensed Matter, 1989, 1, 2147-2150.	0.7	21
141	Surface layers on superconducting YBaCuO films studied with x-ray photoelectron spectroscopy. Applied Physics Letters, 1989, 55, 1680-1682.	1.5	32
142	Experimental electronic structures of sulfur dioxide complexes: an electron spectroscopic study. Journal of the American Chemical Society, 1989, 111, 5058-5063.	6.6	18
143	High critical currents in epitaxial YBa ₂ Cu ₃ O _{7-x} thin films on silicon with buffer layers. Applied Physics Letters, 1989, 54, 754-756.	1.5	102
144	Reduction in magnetic field induced broadening of the resistive transition in laser deposited YBa ₂ Cu ₃ O _{7-x} thin films on MgO. Applied Physics Letters, 1989, 54, 2038-2040.	1.5	8

#	ARTICLE	IF	CITATIONS
145	Fabrication of $Y_{1-x}Pr_xBa_{1-x}Cu_xO_{7-x}$ Thin Films and Superlattices of $Y_{1-x}Pr_xBa_{1-x}Cu_xO_{7-x}/Y_{1-x}Pr_xBa_{1-x}Cu_xO_{7-x}$. Materials Research Society Symposia Proceedings, 1989, 169, 553.	0.1	2
146	Superconducting Properties of Ultra-Thin Films of $Y_{1-x}Ba_xCu_3O_{7-x}$. , 1989, , 1-9.		0
147	Epitaxial growth of $Y_{1-x}Ba_xCu_3O_{7-x}$ films on Si substrates with buffer layers. Proceedings Annual Meeting Electron Microscopy Society of America, 1989, 47, 182-183.	0.0	0
148	Crystalline perfection of as-deposited high- T_c superconducting thin-film surfaces: ion channeling and x-ray photoelectron spectroscopy study. Physical Review B, 1988, 38, 9307-9310.	1.1	36
149	Correlation of superconductivity with \sim oxygen dimer \sim peak in photoelectron spectra from $YBa_2Cu_3\sim xCo_xO_{7\sim y}$. Applied Physics Letters, 1988, 53, 2099-2101.	1.5	13
150	Intrinsic superconductor/normal \sim metal/superconductor \sim like weak links in $Y_{1-x}Ba_xCu_3O_{7-x}$ thin films. Applied Physics Letters, 1988, 53, 2336-2338.	1.5	39
151	Evidence for double valence fluctuation in metallic oxides of lead. Physical Review B, 1988, 37, 5107-5112.	1.1	42
152	As \sim deposited high T_c superconducting thin films made at low temperatures. Applied Physics Letters, 1988, 53, 908-910.	1.5	270
153	Lack of Cu^{3+} , Pb^{4+} , and Bi^{5+} ions in metallic and superconducting oxides. Physical Review B, 1988, 38, 4557-4561.	1.1	33
154	High T_c superconducting film as a fast nonlinear switch for noise discrimination in digital circuits. Applied Physics Letters, 1988, 53, 2704-2706.	1.5	19
155	Holes in the oxygen (2p) valence bands and the concomitant formation of peroxide-like species in metal oxides: their role in metallicity and superconductivity. Journal of the American Chemical Society, 1987, 109, 6893-6895.	6.6	50
156	A novel investigation of vapor-phase charge-transfer complexes of halogens with n-donors by electron energy loss spectroscopy. The Journal of Physical Chemistry, 1986, 90, 1990-1992.	2.9	12
157	Novel laser induced image storage by chemical modification of surfaces in situ textured amorphous Ge films. Applied Physics Letters, 1986, 49, 826-828.	1.5	7
158	Electronic structures of $H_2O\sim BF_3$ and related $n\sim$ addition compounds: A combined EELS \sim UPS study in vapor phase. Journal of Chemical Physics, 1986, 85, 6356-6360.	1.2	19
159	Electron energy loss spectroscopy (eels) of organic molecules in vapour phase: Design and fabrication of an indigenous eel spectrometer. Pramana - Journal of Physics, 1985, 24, 293-310.	0.9	11
160	Study of surface oxidation of rare-earth metals by photoelectron spectroscopy. Journal of the Chemical Society, Faraday Transactions 2, 1981, 77, 1509.	1.1	59
161	Metal-insulator transitions in Cr-doped V_2O_3 by x-ray and ultraviolet photoelectron spectroscopy. Pramana - Journal of Physics, 1979, 12, 151-157.	0.9	5
162	Transition metal oxide perovskites by photoelectron and x-ray absorption spectroscopy. Pramana - Journal of Physics, 1979, 12, 317-329.	0.9	7

#	ARTICLE	IF	CITATIONS
163	Mössbauer Effect for Fe ⁵⁷ in Ferroelectric Lead Titanate. <i>Physical Review B</i> , 1972, 5, 3488-3499.	1.1	55
164	Ferroelectric Properties of Lead Titanate. <i>Journal of the American Ceramic Society</i> , 1968, 51, 565-568.	1.9	58