Neel Haldolaarachchige

List of Publications by Year
in descending order

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67 papers	5,693 citations	101543 36 h-index	95266 68 g-index
76 all docs	76 docs citations	76 times ranked	7869 citing authors

#	Article	IF	Citations
1	Large, non-saturating magnetoresistance in WTe2. Nature, 2014, 514, 205-208.	27.8	1,329
2	One-Pot Synthesis of Magnetic Graphene Nanocomposites Decorated with Core@Double-shell Nanoparticles for Fast Chromium Removal. Environmental Science & Technology, 2012, 46, 977-985.	10.0	469
3	Resistivity plateau and extreme magnetoresistance in LaSb. Nature Physics, 2016, 12, 272-277.	16.7	277
4	Electromagnetic Field Shielding Polyurethane Nanocomposites Reinforced with Coreâ€“Shell Feâ€“Silica Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 15304-15310.	3.1	243
5	Magnetoresistive polyaniline-magnetite nanocomposites with negative dielectrical properties. Polymer, 2012, 53, 801-809.	3.8	218
6	Magnetic polyaniline nanocomposites toward toxic hexavalent chromium removal. RSC Advances, 2012, 2, 11007.	3.6	213
7	Synthetic process engineered polyaniline nanostructures with tunable morphology and physical properties. Polymer, 2012, 53, 2109-2120.	3.8	164
8	Polyaniline Stabilized Magnetite Nanoparticle Reinforced Epoxy Nanocomposites. ACS Applied Materials & Interfaces, 2012, 4, 5613-5624.	8.0	161
9	Electrical and dielectric properties of polyanilineâ€“Al2O3 nanocomposites derived from various Al2O3 nanostructures. Journal of Materials Chemistry, 2011, 21, 3952.	6.7	146
10	Mesoporous magnetic carbon nanocomposite fabrics for highly efficient Cr(<scp>vi</scp>) removal. Journal of Materials Chemistry A, 2014, 2, 2256-2265.	10.3	140
11	Magnetiteâ€“Polypyrrole Metacomposites: Dielectric Properties and Magnetoresistance Behavior. Journal of Physical Chemistry C, 2013, 117, 10191-10202.	3.1	113
12	Polypyrrole metacomposites with different carbon nanostructures. Journal of Materials Chemistry, 2012, 22, 4996.	6.7	110
13	Surfactant-Free Synthesized Magnetic Polypropylene Nanocomposites: Rheological, Electrical, Magnetic, and Thermal Properties. Macromolecules, 2011, 44, 4382-4391.	4.8	104
14	Magnetoresistive Conductive Polyanilineâ€“Barium Titanate Nanocomposites with Negative Permittivity. Journal of Physical Chemistry C, 2012, 116, 15731-15740.	3.1	95
15	Temperatureâ^'field phase diagram of extreme magnetoresistance. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3475-81.	7.1	91
16	Magnetic polyacrylonitrile-Fe@FeO nanocomposite fibers - Electrospinning, stabilization and carbonization. Polymer, 2011, 52, 2947-2955.	3.8	90
17	Magnetic Graphene Nanoplatelet Composites toward Arsenic Removal. ECS Journal of Solid State Science and Technology, 2012, 1, M1-M5.	1.8	90
18	Magnetic graphene nanocomposites: electron conduction, giant magnetoresistance and tunable negative permittivity. Journal of Materials Chemistry, 2012, 22, 835-844.	6.7	85

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19	Magnetic high density polyethylene nanocomposites reinforced with in-situ synthesized Fe@FeO core-shell nanoparticles. Polymer, 2012, 53, 3642-3652.	3.8	83
20	Polypyrrole-Titania Nanocomposites Derived from Different Oxidants. Journal of the Electrochemical Society, 2011, 158, K205.	2.9	74
21	Physical properties of the noncentrosymmetric superconductor Nb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>0</mml:mn><mml:mo>.</mml:mo><mml:mn>18</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>0</mml:mn><mml:mo>.</mml:mo><mml:mn>18</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math	3.2	72
22	Giant Magnetoresistive Phosphoric Acid Doped Polyanilineâ€“Silica Nanocomposites. Journal of Physical Chemistry C, 2013, 117, 6426-6436.	3.1	70
23	Silica stabilized iron particles toward anti-corrosion magnetic polyurethane nanocomposites. RSC Advances, 2012, 2, 1136-1143.	3.6	67
24	Morphologyâ€•and Phaseâ€€controlled Iron Oxide Nanoparticles Stabilized with Maleic Anhydride Grafted Polypropylene. Angewandte Chemie - International Edition, 2012, 51, 8842-8845.	13.8	65
25	Magnetocapacitance in magnetic microtubular carbon nanocomposites under external magnetic field. Nano Energy, 2014, 6, 180-192.	16.0	64
26	Dirac metal to topological metal transition at a structural phase change in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">Au</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">Pb</mml:mi></mml:math>and prediction of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="double-struck">Z</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>topology	3.2	55
27	A large family of filled skutterudites stabilized by electron count. Nature Communications, 2015, 6, 6489.	12.8	52
28	Magnetically Soft and Hard Polypropylene/Cobalt Nanocomposites: Role of Maleic Anhydride Grafted Polypropylene. Macromolecules, 2013, 46, 2357-2368.	4.8	51
29	Anomalous composition dependence of the superconductivity in In-doped SnTe. Physical Review B, 2016, 93, .	3.2	51
30	Iron-core carbon-shell nanoparticles reinforced electrically conductive magnetic epoxy resin nanocomposites with reduced flammability. RSC Advances, 2013, 3, 9453.	3.6	49
31	Magnetic electrospun fluorescent polyvinylpyrrolidone nanocomposite fibers. Polymer, 2012, 53, 4501-4511.	3.8	48
32	Probing the Lower Limit of Lattice Thermal Conductivity in an Ordered Extended Solid: Gd₁₁₇Co₅₆Sn₁₁₂, a Phonon Glassâ€“Electron Crystal System. Journal of the American Chemical Society, 2012, 134, 5965-5973.	13.7	48
33	Very large magnetoresistive graphene disk with negative permittivity. Nanoscale, 2012, 4, 152-156.	5.6	41
34	Looped carbon capturing and environmental remediation: case study of magnetic polypropylene nanocomposites. RSC Advances, 2012, 2, 4844.	3.6	39
35	Magnetic carbon nanostructures: microwave energy-assisted pyrolysisvs. conventional pyrolysis. Chemical Communications, 2013, 49, 258-260.	4.1	39
36	Effect of chemical doping on the thermoelectric properties of FeGa3. Journal of Applied Physics, 2011, 109, .	2.5	36

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37	Giant magnetoresistance in non-magnetic phosphoric acid doped polyaniline silicon nanocomposites with higher magnetic field sensing sensitivity. Physical Chemistry Chemical Physics, 2013, 15, 10866.	2.8	36
38	Superconducting properties of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>K</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msu tungsten bronze and the superconducting phase diagram of the tungsten bronze family. Physical Review B, 2014, 89, .	3.2	35
39	Morphology and phase controlled cobalt nanostructures in magnetic polypropylene nanocomposites: the role of alkyl chain-length in maleic anhydride grafted polypropylene. Chemical Communications, 2013, 49, 2679.	4.1	34
40	Separating positive and negative magnetoresistance for polyaniline-silicon nanocomposites in variable range hopping regime. Applied Physics Letters, 2013, 102, .	3.3	34
41	Positive and negative magnetoresistance phenomena observed in magnetic electrospun polyacrylonitrile-based carbon nanocomposite fibers. Journal of Materials Chemistry C, 2014, 2, 715-722.	5.5	34
42	Comprehensive and sustainable recycling of polymer nanocomposites. Journal of Materials Chemistry, 2011, 21, 16239.	6.7	30
43	Microwave synthesized magnetic tubular carbon nanocomposite fabrics toward electrochemical energy storage. Nanoscale, 2013, 5, 1825.	5.6	30
44	Donor and acceptor impurity-driven switching of magnetic ordering in MnSb_{2â^'x}Sn_xSe₄. Journal of Materials Chemistry C, 2014, 2, 6199-6210.	5.5	30
45	Coexistence of High-T_c Ferromagnetism and n-Type Electrical Conductivity in FeBi₂Se₄. Journal of the American Chemical Society, 2015, 137, 691-698.	13.7	29
46	One-pot synthesis of size- and morphology-controlled 1-D iron oxide nanochains with manipulated magnetic properties. Chemical Communications, 2014, 50, 201-203.	4.1	28
47	Superconducting properties of BaBi₃. Superconductor Science and Technology, 2014, 27, 105001.	3.5	28
48	Characterization of the heavy metal pyrochlore lattice superconductor CaIr₂. Journal of Physics Condensed Matter, 2015, 27, 185701.	1.8	23
49	Microwave Assisted Formation of Magnetic Core-Shell Carbon Nanostructure. ECS Solid State Letters, 2013, 2, M65-M68.	1.4	20
50	Magnetoresistive conductive polymer-tungsten trioxide nanocomposites with ultrahigh sensitivity at low magnetic field. Polymer, 2014, 55, 944-950.	3.8	19
51	Ex Situ Solventâ€Assisted Preparation of Magnetic Poly(propylene) 8nocomposites Filled with Fe@FeO Nanoparticles. Macromolecular Materials and Engineering, 2011, 296, 850-857.	3.6	17
52	Thermoelectric properties of intermetallic semiconducting RuIn3 and metallic IrIn3. Journal of Applied Physics, 2013, 113, 083709.	2.5	13
53	Crystal growth and magnetic properties of Ln-Mn-Al (Ln=Gd, Yb) compounds of the CaCr2Al10 and ThMn12 structure types. Journal of Solid State Chemistry, 2012, 194, 143-150.	2.9	12
54	Ird-band derived superconductivity in the lanthanum-iridium system LaIr₃. Journal of Physics Condensed Matter, 2017, 29, 475602.	1.8	12

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55	Structures and Phase Transitions of CePd_{3+x}Ga_{8-x}: New Variants of the BaHg₁₁ Structure Type. Journal of the American Chemical Society, 2012, 134, 12998-13009.	13.7	11
56	A Tale of Two Polymorphs - Growth and Characterization of Î±-LnNiGa4 (Ln = Y, Gd-Yb) and Î²-LnNi1-xGa4 (Ln = Tb-Er). European Journal of Inorganic Chemistry, 2011, 2011, 3909-3919.	2.0	9
57	Structural Complexity Meets Transport and Magnetic Anisotropy in Single Crystalline Ln₃₀Ru₄Sn₃₁ (Ln = Gd, Dy). Journal of the American Chemical Society, 2013, 135, 2748-2758.	13.7	9
58	Synthesis, Structure, and Properties of Ln₂Ru₃Al₁₅ (Ln = Ce, Gd): Comparison with LnRu₂Al₁₀ and CeRu₄(Al,Si)_{15.58}. Inorganic Chemistry, 2013, 52, 3198-3206.	4.0	8
59	Magnetic and electrical properties of flux grown single crystals of Ln6M4Al43 (Ln=Gd, Yb; M=Cr, Mo,) Tj ETQq1 1 0.784314 rgBT /Ove	2.9	7
60	Investigation of Fe incorporation in LnCr2Al20 (Ln = La, Gd, Yb) with 57Fe MÃ¶ssbauer and Single Crystal X-ray Diffraction. Inorganic Chemistry, 2013, 52, 5055-5062.	4.0	6
61	Serendipitous growth of single crystals with silicon incorporation. Philosophical Magazine, 2012, 92, 2524-2540.	1.6	5
62	Synthesis, Structure, and Physical Properties ofLn(Cu,Al,Ga)13â€“x(Ln= Laâ€“Pr, and Eu) and Eu(Cu,Al)13â€“x. Inorganic Chemistry, 2012, 51, 10193-10202.	4.0	5
63	Synthesis, Structure, and Magnetic and Electrical Properties of Yb(Mn,M)xAl12â€“x(M = Fe, Ru;xâ‰ˆ 2.5) Phases. Crystal Growth and Design, 2013, 13, 1543-1550.	3.0	5
64	Crystal growth, structure, and physical properties of Ln(Ag, Al, Si)₂(Ln = Ce and Gd). Journal of Physics Condensed Matter, 2010, 22, 426002.	1.8	4
65	Crystal Structure and Physical Properties of Yb₃Co_{4â€“x}Ru_xSn₁₃ (x = 0, 0.38). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 2046-2051.	1.2	4
66	Crystal growth, structure, and physical properties of Ln2PdGa12 (Ln=La, Pr, Nd, and Sm). Journal of Alloys and Compounds, 2012, 514, 64-70.	5.5	3
67	Synthesis and anisotropic properties of single crystalline Ln2Ru3Al15+ (Ln=Gd, Tb). Journal of Solid State Chemistry, 2016, 236, 186-194.	2.9	1