

Rdk Misra

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124
papers

9,020
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49
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93
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124
ext. papers

9,753
ext. citations

6
avg, IF

6.4
L-index

#	Paper	IF	Citations
124	Biomimetic chitosan-nanohydroxyapatite composite scaffolds for bone tissue engineering. <i>Acta Biomaterialia</i> , 2009 , 5, 1182-97	10.8	545
123	Magnetic drug-targeting carrier encapsulated with thermosensitive smart polymer: core-shell nanoparticle carrier and drug release response. <i>Acta Biomaterialia</i> , 2007 , 3, 838-50	10.8	389
122	Structure-process-property relationship of the polar graphene oxide-mediated cellular response and stimulated growth of osteoblasts on hybrid chitosan network structure nanocomposite scaffolds. <i>Acta Biomaterialia</i> , 2011 , 7, 3432-45	10.8	328
121	Controlled release of drug from folate-decorated and graphene mediated drug delivery system: Synthesis, loading efficiency, and drug release response. <i>Materials Science and Engineering C</i> , 2011 , 31, 1305-1312	8.3	324
120	New generation of chitosan-encapsulated ZnO quantum dots loaded with drug: synthesis, characterization and in vitro drug delivery response. <i>Acta Biomaterialia</i> , 2010 , 6, 2732-9	10.8	289
119	Austenite stability and deformation behavior in a cold-rolled transformation-induced plasticity steel with medium manganese content. <i>Acta Materialia</i> , 2015 , 84, 229-236	8.4	255
118	Magnetic behavior of nanocrystalline nickel ferrite synthesized by the reverse micelle technique. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 277, 350-358	2.8	253
117	On the suitability of nanocrystalline ferrites as a magnetic carrier for drug delivery: functionalization, conjugation and drug release kinetics. <i>Acta Biomaterialia</i> , 2007 , 3, 233-42	10.8	247
116	Controlled and extended drug release behavior of chitosan-based nanoparticle carrier. <i>Acta Biomaterialia</i> , 2010 , 6, 1140-8	10.8	227
115	On the chemical synthesis and drug delivery response of folate receptor-activated, polyethylene glycol-functionalized magnetite nanoparticles. <i>Acta Biomaterialia</i> , 2008 , 4, 40-8	10.8	225
114	A stimulus-responsive magnetic nanoparticle drug carrier: magnetite encapsulated by chitosan-grafted-copolymer. <i>Acta Biomaterialia</i> , 2008 , 4, 1024-37	10.8	214
113	Anti-microbial active composite nanoparticles with magnetic core and photocatalytic shell: TiO ₂ -NiFe ₂ O ₄ biomaterial system. <i>Acta Biomaterialia</i> , 2005 , 1, 691-703	10.8	201
112	Antimicrobial function of Nd ³⁺ -doped anatase titania-coated nickel ferrite composite nanoparticles: a biomaterial system. <i>Acta Biomaterialia</i> , 2006 , 2, 421-32	10.8	197
111	Synthesis and characterization of nanoparticles with magnetic core and photocatalytic shell: Anatase TiO ₂ -NiFe ₂ O ₄ system. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 119, 144-151	3.1	195
110	Microstructural evolution in a new 770MPa hot rolled Nb microalloyed steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 394, 339-352	5.3	193
109	Impact fracture behavior of clay reinforced polypropylene nanocomposites. <i>Polymer</i> , 2006 , 47, 4421-4433	3.9	192
108	Chitosan-gelatin scaffolds for tissue engineering: physico-chemical properties and biological response of buffalo embryonic stem cells and transfectant of GFP-buffalo embryonic stem cells. <i>Acta Biomaterialia</i> , 2009 , 5, 3453-66	10.8	174

107	Enhanced antibactericidal function of W ⁴⁺ -doped titania-coated nickel ferrite composite nanoparticles: a biomaterial system. <i>Acta Biomaterialia</i> , 2008 , 4, 273-83	10.8	166
106	On significant retention of impact strength in clay reinforced high-density polyethylene (HDPE) nanocomposites. <i>Polymer</i> , 2006 , 47, 2133-2146	3.9	163
105	A comparison of the magnetic characteristics of nanocrystalline nickel, zinc, and manganese ferrites synthesized by reverse micelle technique. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004 , 111, 164-174	3.1	159
104	Magnetic properties of nanocrystalline Ni ₂ Zn, ZnMn, and NiMn ferrites synthesized by reverse micelle technique. <i>Physica B: Condensed Matter</i> , 2004 , 348, 317-328	2.8	150
103	A new family of folate-decorated and carbon nanotube-mediated drug delivery system: synthesis and drug delivery response. <i>Advanced Drug Delivery Reviews</i> , 2011 , 63, 1332-9	18.5	139
102	Deformation processes during tensile straining of ultrafine/nanograined structures formed by reversion in metastable austenitic steels. <i>Scripta Materialia</i> , 2008 , 59, 79-82	5.6	114
101	Interplay between grain structure, deformation mechanisms and austenite stability in phase-reversion-induced nanograined/ultrafine-grained austenitic ferrous alloy. <i>Acta Materialia</i> , 2015 , 84, 339-348	8.4	112
100	Organic/inorganic hybrid network structure nanocomposite scaffolds based on grafted chitosan for tissue engineering. <i>Acta Biomaterialia</i> , 2011 , 7, 2163-75	10.8	107
99	The influence of grain size on the strain-induced martensite formation in tensile straining of an austenitic 15Cr9Mn2NiCu stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 578, 408-416	5.3	106
98	Surface damage behavior during scratch deformation of mineral reinforced polymer composites. <i>Acta Materialia</i> , 2004 , 52, 4363-4376	8.4	103
97	The interplay between nanostructured carbon-grafted chitosan scaffolds and protein adsorption on the cellular response of osteoblasts: structure-function property relationship. <i>Acta Biomaterialia</i> , 2013 , 9, 6084-94	10.8	95
96	On striking variation in impact toughness of polyethylene/clay and polypropylene/clay nanocomposite systems: The effect of clay/polymer interaction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 458, 150-157	5.3	90
95	Austenite stability and its effect on the toughness of a high strength ultra-low carbon medium manganese steel plate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 675, 153-163	5.3	86
94	Nanograined/Ultrafine-Grained Structure and Tensile Deformation Behavior of Shear Phase Reversion-Induced 301 Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 2162-2174	2.3	85
93	Magnetic behavior of nanocrystalline nickel ferrite. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005 , 121, 126-136	3.1	84
92	Ultrahigh strength hot rolled microalloyed steels: microstructural aspects of development. <i>Materials Science and Technology</i> , 2001 , 17, 1119-1129	1.5	83
91	Significance of control of austenite stability and three-stage work-hardening behavior of an ultrahigh strength-high ductility combination transformation-induced plasticity steel. <i>Scripta Materialia</i> , 2013 , 68, 865-868	5.6	75
90	Microstructure and Deformation Behavior of Phase-Reversion-Induced Nanograined/Ultrafine-Grained Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 2498-2509	2.3	74

89	On the reduced susceptibility to stress whitening behavior of melt intercalated polybutene/clay nanocomposites during tensile straining. <i>Acta Materialia</i> , 2004 , 52, 3217-3227	8.4	74
88	Martensite shear phase reversion-induced nanograined/ultrafine-grained Fe-6Cr-10Ni alloy: The effect of interstitial alloying elements and degree of austenite stability on phase reversion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 7779-7792	5.3	73
87	The role of micrometric wollastonite particles on stress whitening behavior of polypropylene composites. <i>Acta Materialia</i> , 2004 , 52, 1683-1697	8.4	70
86	Significance of interplay between austenite stability and deformation mechanisms in governing three-stage work hardening behavior of phase-reversion induced nanograined/ultrafine-grained (NG/UFG) stainless steels with high strength-high ductility combination. <i>Scripta Materialia</i> , 2014 , 71, 1-8	5.6	69
85	On the scratch deformation of micrometric wollastonite reinforced polypropylene composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 364, 357-369	5.3	67
84	On enhanced impact strength of calcium carbonate-reinforced high-density polyethylene composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 405, 178-193	5.3	58
83	Strain hardening behavior of phase reversion-induced nanograined/ultrafine-grained (NG/UFG) austenitic stainless steel and relationship with grain size and deformation mechanism. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 613, 60-70	5.3	56
82	Evolution of crystal structure of Cu precipitates in a low carbon steel. <i>Materials and Design</i> , 2017 , 135, 92-101	8.1	55
81	Susceptibility to scratch surface damage of wollastonite- and talc-containing polypropylene micrometric composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 380, 326-339	5.3	55
80	Unique impact of ferrite in influencing austenite stability and deformation behavior in a hot-rolled Fe-Mn-Al-C steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 595, 86-91	5.3	53
79	Structure-mechanical property relationship in low carbon microalloyed steel plate processed using controlled rolling and two-stage continuous cooling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 585, 197-204	5.3	53
78	Microstructural evolution and mechanical properties of high strength microalloyed steels: Ultra Fast Cooling (UFC) versus Accelerated Cooling (ACC). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 580, 257-265	5.3	53
77	Cellular response of preosteoblasts to nanograined/ultrafine-grained structures. <i>Acta Biomaterialia</i> , 2009 , 5, 1455-67	10.8	53
76	The influence of loading rate and concurrent microstructural evolution in micrometric talc- and wollastonite-reinforced high isotactic polypropylene composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 374, 374-389	5.3	52
75	Unique serrated flow dependence of critical stress in a hot-rolled Fe-Mn-Al-C steel. <i>Scripta Materialia</i> , 2014 , 71, 5-8	5.6	49
74	Degradation mechanism and increased stability of chitosan-based hybrid scaffolds cross-linked with nanostructured carbon: Process-structure-functional property relationship. <i>Polymer Degradation and Stability</i> , 2013 , 98, 2331-2339	4.7	48
73	Influence of cooling rate on the precipitation behavior in Ti-Nb-Mo microalloyed steels during continuous cooling and relationship to strength. <i>Materials Characterization</i> , 2015 , 102, 146-155	3.9	46
72	On stress whitening during surface deformation in clay-containing polymer nanocomposites: A microstructural approach. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 418, 268-281	5.3	45

71	Microstructure and mechanical properties of a novel 1000MPa grade TMCP low carbon microalloyed steel with combination of high strength and excellent toughness. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 612, 123-130	5.3	43
70	Magnetic behavior of nickel ferrite/polyethylene nanocomposites synthesized by mechanical milling process. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004 , 111, 95-100	3.1	43
69	On the fracture characteristics of impact tested high density polyethylene/calcium carbonate nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 592-601	5.3	42
68	Some aspects of surface deformation and fracture of 50% calcium carbonate-reinforced polyethylene composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 384, 284-298	5.3	41
67	Effect of two-step intercritical annealing on microstructure and mechanical properties of hot-rolled medium manganese TRIP steel containing ϵ -ferrite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 688, 40-55	5.3	40
66	Relationship of grain size and deformation mechanism to the fracture behavior in high strength/high ductility nanostructured austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 626, 41-50	5.3	40
65	Strain rate sensitivity of homopolymer polypropylenes and micrometric wollastonite-filled polypropylene composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 368, 191-204	5.3	40
64	Favorable Modulation of Pre-Osteoblast Response to Nanograined/Ultrafine-grained Structures in Austenitic Stainless Steel. <i>Advanced Materials</i> , 2009 , 21, 1280-1285	24	37
63	High strength/toughness combination of melt intercalated nanoclay-reinforced thermoplastic olefins. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 460-461, 277-287	5.3	36
62	The determining role of calcium carbonate on surface deformation during scratching of calcium carbonate-reinforced polyethylene composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 404, 208-220	5.3	36
61	Superior in vitro biological response and mechanical properties of an implantable nanostructured biomaterial: Nanohydroxyapatite-silicone rubber composite. <i>Acta Biomaterialia</i> , 2009 , 5, 2668-79	10.8	35
60	Biological significance of nanograined/ultrafine-grained structures: Interaction with fibroblasts. <i>Acta Biomaterialia</i> , 2010 , 6, 3339-48	10.8	34
59	Nanoscale near-surface deformation in polymer nanocomposites. <i>Acta Materialia</i> , 2008 , 56, 2089-2100	8.4	33
58	A comparative study of the microstructure and properties of 800 MPa microalloyed C-Mn steel welded joints by laser and gas metal arc welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 669, 150-158	5.3	33
57	Correlation between deformation behavior and austenite characteristics in a Mn-Al type TRIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 698, 126-135	5.3	32
56	Structure-property relationship in a 960 MPa grade ultrahigh strength low carbon niobium/vanadium microalloyed steel: The significance of high frequency induction tempering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 698, 126-135	5.3	32
55	Nanoparticle effects on spherulitic structure and phase formation in polypropylene crystallized at moderately elevated pressures: The influence on fracture resistance. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 480, 181-188	5.3	32
54	The impact of intercritical annealing in conjunction with warm deformation process on microstructure, mechanical properties and TRIP effect in medium-Mn TRIP steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 746, 363-371	5.3	31

53	On the determining role of acicular ferrite in V-N microalloyed steel in increasing strength-toughness combination. <i>Materials Characterization</i> , 2016 , 118, 446-453	3.9	30
52	Interplay between deformation behavior and mechanical properties of intercritically annealed and tempered medium-manganese transformation-induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 654, 359-367	5.3	30
51	Near surface deformation associated with the scratch in polypropylene/clay nanocomposite: A microscopic study. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 418, 292-302	5.3	30
50	The potential significance of microalloying with niobium in governing very high cycle fatigue behavior of bainite/martensite multiphase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 650, 438-444	5.3	29
49	Effect of weld peak temperature on the microstructure, hardness, and transformation kinetics of simulated heat affected zone of hot rolled ultra-low carbon high strength Ti-Mo ferritic steel. <i>Materials & Design</i> , 2014 , 60, 302-309		29
48	Interplay between reversed austenite and plastic deformation in a directly quenched and intercritically annealed 0.04C-5Mn low-Al steel. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 2072-2082	5.7	29
47	On surface deformation of melt-intercalated polyethylene/clay nanocomposites during scratching. <i>Polymer Engineering and Science</i> , 2006 , 46, 1625-1634	2.3	29
46	The effect of coiling temperature on the microstructure and mechanical properties of a niobium-titanium microalloyed steel processed via thin slab casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 595, 143-153	5.3	28
45	Copper precipitation and its impact on mechanical properties in a low carbon microalloyed steel processed by a three-step heat treatment. <i>Materials & Design</i> , 2014 , 63, 42-49		28
44	Effect of Ti variation on microstructure evolution and mechanical properties of low carbon medium Mn heavy plate steel. <i>Materials Characterization</i> , 2019 , 152, 21-35	3.9	27
43	Investigation of mechanical, thermal and surface properties of nanoclay/HDPE nanocomposites produced industrially by melt mixing approach. <i>Journal of Composite Materials</i> , 2016 , 50, 3105-3116	2.7	27
42	Cellular activity of bioactive nanograined/ultrafine-grained materials. <i>Acta Biomaterialia</i> , 2010 , 6, 2826-2835	5.8	26
41	Strain hardening behavior of nanograined/ultrafine-grained (NG/UFG) austenitic 16Cr-10Ni stainless steel and its relationship to austenite stability and deformation behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 649, 153-157	5.3	25
40	Effect of heat input on microstructure and properties of hybrid fiber laser-arc weld joints of the 800 MPa hot-rolled Nb-Ti-Mo microalloyed steels. <i>Optics and Lasers in Engineering</i> , 2017 , 91, 86-96	4.6	24
39	Influence of annealing temperature on microstructure and tensile property of cold-rolled Fe-0.2C-11Mn-6Al steel. <i>Materials Characterization</i> , 2018 , 137, 256-262	3.9	24
38	Structure-mechanical property relationship in a high strength microalloyed steel with low yield ratio: The effect of tempering temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 609, 209-216	5.3	24
37	Influence of grain structure on the deformation mechanism in martensitic shear reversion-induced Fe-16Cr-10Ni model austenitic alloy with low interstitial content: Coarse-grained versus nano-grained/ultrafine-grained structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 661, 51-60	5.3	22
36	Synthesis, structure and properties of a novel hybrid bimodal network elastomer with inorganic cross-links: The case of silicone/nanocrystalline titania. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 523, 199-206	5.3	22

35	Nanoparticle effects during pressure-induced crystallization of polypropylene. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 153, 88-95	3.1	21
34	Microstructure and deformation behavior of the hot-rolled medium manganese steels with varying aluminum-content. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 676, 263-270	5.3	21
33	Effect of intercritical rolling temperature on microstructure-mechanical property relationship in a medium Mn-TRIP steel containing δ -ferrite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 720, 1-10	5.3	19
32	Hybrid nanostructured drug carrier with tunable and controlled drug release. <i>Materials Science and Engineering C</i> , 2012 , 32, 1704-9	8.3	19
31	Biomimetic nanostructured coatings on nano-grained/ultrafine-grained substrate: Microstructure, surface adhesion strength, and biosolubility. <i>Materials Science and Engineering C</i> , 2009 , 29, 2417-2427	8.3	19
30	The determining role of scratch indenter radius on surface deformation of high density polyethylene and calcium carbonate-reinforced composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 456, 218-229	5.3	19
29	The influence of microstructural characteristics on yield point elongation phenomenon in Fe-0.2C-11Mn-2Al steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 739, 17-25	5.3	19
28	Determination of the mechanical, thermal and physical properties of nano-CaCO ₃ filled high-density polyethylene nanocomposites produced in an industrial scale. <i>Journal of Composite Materials</i> , 2016 , 50, 3445-3456	2.7	17
27	The effect of nitrogen on the formation of phase reversion-induced nanograined/ultrafine-grained structure and mechanical behavior of a Cr-Ni steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1889-1896	5.3	17
26	Austenite stability and mechanical properties of a low-alloyed ECAPed TRIP-aided steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 724, 95-102	5.3	16
25	Hierarchical structures and phase nucleation and growth during pressure-induced crystallization of polypropylene containing dispersion of nanoclay: The impact on physical and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6699-6713	5.3	16
24	The significant impact of phase fraction and austenite stability on the mechanical properties of a low-alloyed TRIP-aided steel: An insight into experimental analysis and predictions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 739, 17-25	5.3	15
23	Nanoparticle effects on the crystallization of polyethylene at elevated pressures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 492, 434-442	5.3	15
22	Effect of microalloying with molybdenum and boron on the microstructure and mechanical properties of ultra-low-C Ti bearing steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 640, 259-266	5.3	14
21	Effect of hot rolling temperature on the microstructure and mechanical properties of ultra-low carbon medium manganese steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 731, 149-155	5.3	14
20	Structure-property relationship in impact modified nanoclay-reinforced polypropylene. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1857-1863	5.3	14
19	The effect of crystallization pressure on macromolecular structure, phase evolution, and fracture resistance of nano-calcium carbonate-reinforced high density polyethylene. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6699-6713	5.3	14
18	Nanoparticle interface driven microstructural evolution and crystalline phases of polypropylene: The effect of nanoclay content on structure and physical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6002-6011	5.3	14

17	The determining impact of coiling temperature on the microstructure and mechanical properties of a titanium-niobium ultrahigh strength microalloyed steel: Competing effects of precipitation and bainite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 665, 1-9	5.3	12
16	The role of nanocrystalline titania coating on nanostructured austenitic stainless steel in enhancing osteoblasts functions for regeneration of tissue. <i>Materials Science and Engineering C</i> , 2011 , 31, 458-471	8.3	11
15	Mechanics of nanoscale surface deformation in polypropylene-clay nanocomposite. <i>Mechanics of Materials</i> , 2012 , 45, 103-116	3.3	10
14	Superparamagnetic behaviour of nanocrystalline Ni \square Zn, Zn \square Mn and Ni \square Mn ferrites processed by reverse micelle method. <i>Materials Science and Technology</i> , 2004 , 20, 999-1005	1.5	10
13	Nanoscale elastic-plastic deformation in clay-reinforced nanostructured materials: The response of phase and structural morphology. <i>Journal of Composite Materials</i> , 2014 , 48, 385-405	2.7	8
12	Micromechanism of surface and sub-surface deformation behavior of high density polyethylene containing dispersion of nanoparticles: An electron microscopy study and indenter-substrate interaction. <i>Mechanics of Materials</i> , 2011 , 43, 254-268	3.3	8
11	Effect of inorganic nanofillers on the impact behavior and fracture probability of industrial high-density polyethylene nanocomposite. <i>Journal of Composite Materials</i> , 2018 , 52, 2431-2442	2.7	8
10	Combining a novel cyclic pre-quenching and two-stage heat treatment in a low-alloyed TRIP-aided steel to significantly enhance mechanical properties through microstructural refinement. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 711, 136631	5.3	7
9	Structure-property relationship in novel low carbon hot-rolled TRIP steels via thermo-mechanical controlled processing and coiling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 771, 138643	5.3	7
8	Multiphase bainite - martensite steels: The significant impact of niobium microalloying on structure and mechanical behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 730, 262-269	5.3	5
7	Competing deformation mechanisms in an austenite-ferrite medium-Mn steel at different strain rates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 818, 141357	5.3	5
6	Structure-property relationships in heat-affected zone of gas-shielded arc-welded V \square microalloyed steel. <i>Journal of Iron and Steel Research International</i> , 2018 , 25, 1244-1254	1.2	5
5	On the dynamic behavior and relationship to mechanical properties of cold-rolled Fe-0.2C-15Mn-3Al steel at intermediate strain rate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 423-431	5.3	4
4	Microstructural evolution and mechanical properties of 9Mn steel during warm/cold rolling and subsequent intercritical annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 796, 140051	5.3	2
3	Hydrogen diffusivity in different microstructural components in martensite matrix with retained austenite. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 8269-8284	6.7	2
2	On the structure-property relationship in a novel 1000MPa hot-rolled TRIP steel with strain-assisted ferrite transformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 821, 141594	5.3	2
1	Effect of prior austenite on reversed austenite stability and mechanical properties of low carbon medium manganese steel heavy plate. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019 , 50, 1221-1231	0.9	