List of Publications by Year in descending order

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Νορμανί Υ Ζμου

#	Article	IF	CITATIONS
1	Failure behavior of resistance spot welded advanced high strength steel: The role of surface condition and initial microstructure. Journal of Materials Processing Technology, 2022, 299, 117370.	3.1	29
2	Versatile memristor for memory and neuromorphic computing. Nanoscale Horizons, 2022, 7, 299-310.	4.1	38
3	A Comparison Between Hardness-Scaling and Ball-Indentation Techniques on Predicting Stress/Strain Distribution and Failure Behavior of Resistance Spot Welded Advanced High Strength Steel. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2022, 144, .	1.3	4
4	Laser welding-brazing of NiTi/304 stainless steel wires with beam defocus and large offset. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 835, 142660.	2.6	15
5	Waterâ€Enabled Electricity Generation: A Perspective. Advanced Energy and Sustainability Research, 2022, 3, .	2.8	17
6	Laser modification of Au–CuO–Au structures for improved electrical and electro-optical properties. Nanotechnology, 2022, 33, 245205.	1.3	6
7	The influence of in-situ alloying of electro-spark deposited coatings on the multiscale morphological and mechanical properties of laser welded Al–Si coated 22MnB5. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 839, 142830.	2.6	18
8	High-Performance Mid-IR to Deep-UV van der Waals Photodetectors Capable of Local Spectroscopy at Room Temperature. Nano Letters, 2022, 22, 3425-3432.	4.5	6
9	The effect of laser impingement angle on the optimization of melt pool geometry to improve process stability during high-speed laser welding of thin-gauge automotive steels. Journal of Manufacturing Processes, 2022, 78, 242-253.	2.8	25
10	The failure mechanism of resistance spot welded third-generation medium-Mn steel during shear-tension loading. Journal of Manufacturing Processes, 2022, 79, 520-531.	2.8	16
11	Effect of torch angle and position on bead geometry and joint strength during arc brazing ofÂthin-gaugeÂdual-phase steel. International Journal of Advanced Manufacturing Technology, 2022, 121, 543-557.	1.5	11
12	Mechanical properties and failure behavior of resistance spot welded medium-Mn steel under static and quasi-static shear-tension loading. Welding in the World, Le Soudage Dans Le Monde, 2022, 66, 1609-1622.	1.3	3
13	Predicting liquid metal embrittlement severity in resistance spot welding using hot tensile testing data. Welding in the World, Le Soudage Dans Le Monde, 2022, 66, 1705-1714.	1.3	5
14	Effect of heat input modes on microstructure, mechanical properties and porosity of laser welded NiTi-316L joints: A comparative study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143426.	2.6	4
15	Soft Biomaterials Based Flexible Artificial Synapse for Neuromorphic Computing. Advanced Electronic Materials, 2022, 8, .	2.6	8
16	Effect of external loading on liquid metal embrittlement severity during resistance spot welding. Manufacturing Letters, 2022, 33, 11-14.	1.1	3
17	Laser engineering of ITO/ZnO/ITO structures for photodetector applications. Journal of Laser Applications, 2022, 34, 032006.	0.8	3
18	Resistance spot welding of NiTi shape memory alloy sheets: Microstructural evolution and mechanical properties. Journal of Manufacturing Processes, 2022, 81, 467-475.	2.8	5

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19	Laser-assisted wire cladding using a retrofitted laser welding system. Surface Engineering, 2021, 37, 634-641.	1.1	10
20	Weld hardness ratio and liquid metal embrittlement crack's detrimental effect on resistant spot weld strength. Science and Technology of Welding and Joining, 2021, 26, 58-67.	1.5	11
21	Effect of Microsegregation on Highâ€Temperature Microstructure Evolution in Rapid Solidification Processed Nbâ€Rich Ni Superalloys. Advanced Engineering Materials, 2021, 23, 2001396.	1.6	4
22	A Battery-Like Self-Selecting Biomemristor from Earth-Abundant Natural Biomaterials. ACS Applied Bio Materials, 2021, 4, 1976-1985.	2.3	30
23	Electrocatalytic Hydrolysisâ€Modulated Multistate Resistive Switching Behaviors in Memristors. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000655.	0.8	5
24	Multistate resistive switching behaviors for neuromorphic computing in memristor. Materials Today Advances, 2021, 9, 100125.	2.5	33
25	A comprehensive insight into the superelasticity measurement of laser welded NiTi shape memory alloys. Materials Letters, 2021, 287, 129310.	1.3	7
26	Significance of cutting plane in liquid metal embrittlement severity quantification. SN Applied Sciences, 2021, 3, 620.	1.5	9
27	A True Random Number Generator Based on Ionic Liquid Modulated Memristors. ACS Applied Electronic Materials, 2021, 3, 2380-2388.	2.0	17
28	Synaptic devices based neuromorphic computing applications in artificial intelligence. Materials Today Physics, 2021, 18, 100393.	2.9	110
29	Superelasticity preservation in dissimilar joint of NiTi shape memory alloy to biomedical PtIr. Materialia, 2021, 16, 101090.	1.3	12
30	A Simple High Power, Fast Response Streaming Potential/Current-Based Electric Nanogenerator Using a Layer of Al ₂ O ₃ Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 27169-27178.	4.0	22
31	Numerical modelling and experimental validation of the effect of laser beam defocusing on process optimization during fiber laser welding of automotive press-hardened steels. Journal of Manufacturing Processes, 2021, 67, 535-544.	2.8	49
32	Multifunctional Self-Powered Electronics Based on a Reusable Low-Cost Polypropylene Fabric Triboelectric Nanogenerator. ACS Applied Materials & Interfaces, 2021, 13, 34266-34273.	4.0	18
33	Optimizing weld morphology and mechanical properties of laser welded Al-Si coated 22MnB5 by surface application of colloidal graphite. Journal of Materials Processing Technology, 2021, 293, 117093.	3.1	23
34	Laser Alloying as an Effective Way to Fabricate NiTiPt Shape Memory Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4368-4378.	1.1	1
35	Pathway to understand liquid metal embrittlement (LME) in Fe-Zn couple: From fundamentals toward application. Progress in Materials Science, 2021, 121, 100798.	16.0	52
36	Femtosecond laser irradiation induced heterojunctions between carbon nanofibers and silver nanowires for a flexible strain sensor. Journal of Materials Science and Technology, 2021, 84, 139-146.	5.6	17

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37	Formation of metal–semiconductor nanowire heterojunctions by nanosecond laser irradiation. AIP Advances, 2021, 11, .	0.6	3
38	Effects of laser beam defocusing on high-strain-rate tensile behavior of press-hardened Zn-coated 22MnB5 steel welds. Optics and Laser Technology, 2021, 141, 107116.	2.2	18
39	A systematic study on the effect of coating type and surface preparation on the wettability of Si-Bronze brazing filler material on GI and GA-coated DP600. Surface and Coatings Technology, 2021, 425, 127735.	2.2	14
40	Adjustable Leaky-Integrate-and-fire neurons based on memristor-coupled capacitors. Materials Today Advances, 2021, 12, 100192.	2.5	15
41	Influence of Ni interlayer width on interfacial reactions and mechanical properties in laser welding/brazing of Al/Mg lap joint. Science and Technology of Welding and Joining, 2020, 25, 37-44.	1.5	16
42	Effect of galvanneal-coating evolution during press-hardening on laser welding of 22MnB5 steel. Science and Technology of Welding and Joining, 2020, 25, 112-118.	1.5	13
43	Threshold Switching in Single Metalâ€Oxide Nanobelt Devices Emulating an Artificial Nociceptor. Advanced Electronic Materials, 2020, 6, 1900595.	2.6	35
44	A Self-Powered Nanogenerator for the Electrical Protection of Integrated Circuits from Trace Amounts of Liquid. Nano-Micro Letters, 2020, 12, 5.	14.4	20
45	Maskless Patterning of Metal Outflow in Alternating Metal/Ceramic Multiple Nanolayers by Femtosecond Laser Irradiation. Journal of Physical Chemistry C, 2020, 124, 1178-1189.	1.5	5
46	Heterogeneous stimuli induced nonassociative learning behavior in ZnO nanowire memristor. Nanotechnology, 2020, 31, 125201.	1.3	14
47	Role of spot weld electrode geometry on liquid metal embrittlement crack development. Journal of Manufacturing Processes, 2020, 49, 1-9.	2.8	47
48	Laser-induced Joining of Nanoscale Materials: Processing, Properties, and Applications. Nano Today, 2020, 35, 100959.	6.2	25
49	From Memristive Materials to Neural Networks. ACS Applied Materials & Interfaces, 2020, 12, 54243-54265.	4.0	56
50	Moistureâ€Enabled Electricity Generation: From Physics and Materials to Selfâ€Powered Applications. Advanced Materials, 2020, 32, e2003722.	11.1	175
51	High-Performance Magnesium–Carbon Nanofiber Hygroelectric Generator Based on Interface-Mediation-Enhanced Capacitive Discharging Effect. ACS Applied Materials & Interfaces, 2020, 12, 24289-24297.	4.0	25
52	Passive Filters for Nonvolatile Storage Based on Capacitive-Coupled Memristive Effects in Nanolayered Organic–Inorganic Heterojunction Devices. ACS Applied Nano Materials, 2020, 3, 5045-5052.	2.4	18
53	Biomemristors as the next generation bioelectronics. Nano Energy, 2020, 75, 104938.	8.2	110
54	Nanojoining and tailoring of current–voltage characteristics of metal-P type semiconductor nanowire heterojunction by femtosecond laser irradiation. Journal of Applied Physics, 2020, 127, .	1.1	5

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55	Role of Random and Coincidence Site Lattice Grain Boundaries in Liquid Metal Embrittlement of Iron (FCC)-Zn Couple. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3938-3944.	1.1	24
56	Evolution of Transient Nature Nanoscale Softening During Martensite Tempering. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3772-3777.	1.1	4
57	A review on the laser welding of coated 22MnB5 press-hardened steel and its impact on the production of tailor-welded blanks. Science and Technology of Welding and Joining, 2020, 25, 447-467.	1.5	44
58	The Role of Internal Oxides on the Liquid Metal Embrittlement Cracking During Resistance Spot Welding of the Dual Phase Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 2180-2191.	1.1	25
59	The effect of silicon content on liquid-metal-embrittlement susceptibility in resistance spot welding of galvanized dual-phase steel. Journal of Manufacturing Processes, 2020, 57, 370-379.	2.8	43
60	Contact engineering of single core/shell SiC/SiO ₂ nanowire memory unit with high current tolerance using focused femtosecond laser irradiation. Nanoscale, 2020, 12, 5618-5626.	2.8	11
61	Effect of Laser Positioning on the Microstructure and Properties of NiTi-Copper Dissimilar Laser Welds. Journal of Materials Engineering and Performance, 2020, 29, 849-857.	1.2	19
62	Non–zero-crossing current-voltage hysteresis behavior in memristive system. Materials Today Advances, 2020, 6, 100056.	2.5	37
63	A Phenomenological Model of Resistance Spot Welding on Liquid Metal Embrittlement Severity Using Dynamic Resistance Measurement. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	1.3	12
64	Reduction in liquid metal embrittlement cracking using weld current ramping. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 1583-1591.	1.3	35
65	Effect of Multiple Pulse Resistance Spot Welding Schedules on Liquid Metal Embrittlement Severity. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	1.3	31
66	A Unified Capacitive-Coupled Memristive Model for the Nonpinched Current–Voltage Hysteresis Loop. Nano Letters, 2019, 19, 6461-6465.	4.5	128
67	The Effect of Pulse Energy on the Defects and Microstructure of Electro-Spark-Deposited Inconel 718. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4223-4231.	1.1	11
68	Large-Area Die-Attachment Sintered by Organic-Free Ag Sintering Material at Low Temperature. Journal of Electronic Materials, 2019, 48, 7562-7572.	1.0	7
69	Effect of internal oxidation on the weldability of CMnSi steels. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 1633-1639.	1.3	5
70	Two-photon absorption induced nanowelding for assembling ZnO nanowires with enhanced photoelectrical properties. Applied Physics Letters, 2019, 115, .	1.5	16
71	Highly focused femtosecond laser directed selective boron doping in single SiC nanowire device for n-p conversion. Applied Physics Letters, 2019, 115, .	1.5	7
72	Suppression of liquid metal embrittlement in resistance spot welding of TRIP steel. Science and Technology of Welding and Joining, 2019, 24, 579-586.	1.5	19

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73	Dynamic Tensile Behavior of Fiber Laser Welds of Medium Manganese Transformation-Induced Plasticity Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3578-3588.	1.1	9
74	Ultrathin TiO <i>_x</i> Interfaceâ€Mediated ZnOâ€Nanowire Memristive Devices Emulating Synaptic Behaviors. Advanced Electronic Materials, 2019, 5, 1900142.	2.6	9
75	Self-Powered, Rapid-Response, and Highly Flexible Humidity Sensors Based on Moisture-Dependent Voltage Generation. ACS Applied Materials & Interfaces, 2019, 11, 14249-14255.	4.0	74
76	Enhancement of mechanical and functional properties of welded NiTi by controlling nickel vapourisation. Science and Technology of Welding and Joining, 2019, 24, 706-712.	1.5	19
77	Experimental and Numerical Analysis of Liquid Metal Embrittlement Crack Location. Journal of Materials Engineering and Performance, 2019, 28, 2045-2052.	1.2	31
78	Cooperative Bilayer of Lattice-Disordered Nanoparticles as Room-Temperature Sinterable Nanoarchitecture for Device Integrations. ACS Applied Materials & Interfaces, 2019, 11, 16972-16980.	4.0	30
79	A Predictive Model for Thermal Conductivity of Nano-Ag Sintered Interconnect for a SiC Die. Journal of Electronic Materials, 2019, 48, 2811-2825.	1.0	12
80	Quantifying the link between crack distribution and resistance spot weld strength reduction in liquid metal embrittlement susceptible steels. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 807-814.	1.3	40
81	Plasmon-Induced Heterointerface Thinning for Schottky Barrier Modification of Core/Shell SiC/SiO ₂ Nanowires. ACS Applied Materials & Interfaces, 2019, 11, 9326-9332.	4.0	16
82	Impact of liquid metal embrittlement cracks on resistance spot weld static strength. Science and Technology of Welding and Joining, 2019, 24, 218-224.	1.5	49
83	Preparation of Oxidation-Resistant Ag-Cu Alloy Nanoparticles by Polyol Method for Electronic Packaging. Journal of Electronic Materials, 2019, 48, 1286-1293.	1.0	16
84	Oxygen vacancy migration/diffusion induced synaptic plasticity in a single titanate nanobelt. Nanoscale, 2018, 10, 6069-6079.	2.8	30
85	Influence of SC-HAZ microstructure on the mechanical behavior of Si-TRIP steel welds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 718, 216-227.	2.6	22
86	Selfâ€Powered Wearable Electronics Based on Moisture Enabled Electricity Generation. Advanced Materials, 2018, 30, e1705925.	11.1	207
87	Effect of coating weight on fiber laser welding of Galvanneal-coated 22MnB5 press hardening steel. Surface and Coatings Technology, 2018, 337, 536-543.	2.2	21
88	UVâ€Induced Multilevel Current Amplification Memory Effect in Zinc Oxide Rods Resistive Switching Devices. Advanced Functional Materials, 2018, 28, 1706230.	7.8	60
89	Design guideline for intermetallic compound mitigation in Al-Mg dissimilar welding through addition of interlayer. International Journal of Advanced Manufacturing Technology, 2018, 94, 2667-2678.	1.5	34
90	Photocatalysis with easily recoverable linear engineered TiO2 nanomaterials to prevent the formation of disinfection byproducts in drinking water. Journal of Environmental Chemical Engineering, 2018, 6, 197-207.	3.3	15

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91	Formation and Toughening Mechanisms of Dispersions in Interfacial Intermetallics of Dissimilar Laser Al/Steel Joints. Journal of Materials Engineering and Performance, 2018, 27, 4107-4114.	1.2	8
92	Solar photocatalysis with modified TiO ₂ photocatalysts: effects on NOM and disinfection byproduct formation potential. Environmental Science: Water Research and Technology, 2018, 4, 1361-1376.	1.2	15
93	Liquid metal embrittlement in laser beam welding of Zn-coated 22MnB5 steel. Materials and Design, 2018, 155, 375-383.	3.3	61
94	Tensile and Fatigue Properties of Single and Multiple Dissimilar Welded Joints of DP980 and HSLA. Journal of Materials Engineering and Performance, 2017, 26, 783-791.	1.2	10
95	Study and Applications of Dynamic Resistance Profiles During Resistance Spot Welding of Coated Hot-Stamping Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 745-758.	1.1	17
96	Reliable and Low-Power Multilevel Resistive Switching in TiO ₂ Nanorod Arrays Structured with a TiO _{<i>x</i>} Seed Layer. ACS Applied Materials & Interfaces, 2017, 9, 4808-4817.	4.0	86
97	Nanoscale Wire Bonding of Individual Ag Nanowires on Au Substrate at Room Temperature. Nano-Micro Letters, 2017, 9, 26.	14.4	16
98	Carbon nanowalls: A new material for resistive switching memory devices. Carbon, 2017, 120, 54-62.	5.4	42
99	Phase transformation of TiO ₂ nanoparticles by femtosecond laser ablation in aqueous solutions and deposition on conductive substrates. Nanoscale, 2017, 9, 6167-6177.	2.8	24
100	Fatigue behaviour of dissimilar Al 5052 and Mg AZ31 resistance spot welds with Snâ€coated steel interlayer. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1048-1058.	1.7	19
101	Improving the electrical contact at a Pt/TiO ₂ nanowire interface by selective application of focused femtosecond laser irradiation. Nanotechnology, 2017, 28, 405302.	1.3	19
102	Effect of the size of silver nanoparticles on SERS signal enhancement. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	70
103	Concurrent photocatalytic and filtration processes using doped TiO2 coated quartz fiber membranes in a photocatalytic membrane reactor. Chemical Engineering Journal, 2017, 330, 531-540.	6.6	53
104	Sintering Bonding Process with Ag Nanoparticle Paste and Joint Properties in High Temperature Environment. Journal of Nanomaterials, 2016, 2016, 1-8.	1.5	25
105	<i>In situ</i> nanojoining of Y- and T-shaped silver nanowires structures using femtosecond laser radiation. Nanotechnology, 2016, 27, 125201.	1.3	40
106	Plasmonic engineering of metal-oxide nanowire heterojunctions in integrated nanowire rectification units. Applied Physics Letters, 2016, 108, .	1.5	23
107	Photocatalytic decomposition of organic micropollutants using immobilized TiO2 having different isoelectric points. Water Research, 2016, 101, 351-361.	5.3	63
108	Multilevel Memory: Plasmonic-Radiation-Enhanced Metal Oxide Nanowire Heterojunctions for Controllable Multilevel Memory (Adv. Funct. Mater. 33/2016). Advanced Functional Materials, 2016, 26, 6135-6135.	7.8	1

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109	Effects of tempering mode on the structural changes of martensite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 467-475.	2.6	76
110	Photocatalytic decomposition of selected estrogens and their estrogenic activity by UV-LED irradiated TiO2 immobilized on porous titanium sheets via thermal-chemical oxidation. Journal of Hazardous Materials, 2016, 318, 541-550.	6.5	50
111	A comparative study of silver nanoparticles synthesized by arc discharge and femtosecond laser ablation in aqueous solution. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	8
112	Plasmonicâ€Radiationâ€Enhanced Metal Oxide Nanowire Heterojunctions for Controllable Multilevel Memory. Advanced Functional Materials, 2016, 26, 5979-5986.	7.8	59
113	Low temperature sintering of silver nanoparticle paste for electronic packaging. , 2016, , .		1
114	Fusion zone microstructure evolution of fiber laser welded press-hardened steels. Scripta Materialia, 2016, 121, 18-22.	2.6	63
115	Thermomechanical fatigue of post-weld heat treated NiTi shape memory alloy wires. International Journal of Fatigue, 2016, 92, 1-7.	2.8	21
116	Single-step synthesis of graphene quantum dots by femtosecond laser ablation of graphene oxide dispersions. Nanoscale, 2016, 8, 8863-8877.	2.8	54
117	Nanostructure of immiscible Mg–Fe dissimilar weld without interfacial intermetallic transition layer. Materials and Design, 2016, 92, 445-449.	3.3	22
118	Investigation of splashing phenomena during the impact of molten sub-micron gold droplets on solid surfaces. Soft Matter, 2016, 12, 295-301.	1.2	13
119	Interfacial Nano-Mechanical Properties of Copper Joints Bonded with Silver Nanopaste near Room Temperature. Materials Transactions, 2015, 56, 1010-1014.	0.4	2
120	Joining of Silver Nanomaterials at Low Temperatures: Processes, Properties, and Applications. ACS Applied Materials & Interfaces, 2015, 7, 12597-12618.	4.0	276
121	Surface characterizations of laser modified biomedical grade NiTi shape memory alloys. Materials Science and Engineering C, 2015, 50, 367-378.	3.8	50
122	Sintering mechanisms and mechanical properties of joints bonded using silver nanoparticles for electronic packaging applications. Welding in the World, Le Soudage Dans Le Monde, 2015, 59, 427-432.	1.3	24
123	Recent progresses on hybrid micro–nano filler systems for electrically conductive adhesives (ECAs) applications. Journal of Materials Science: Materials in Electronics, 2015, 26, 4730-4745.	1.1	52
124	Assembly of silver nanoparticles on nanowires into ordered nanostructures with femtosecond laser radiation. Applied Optics, 2015, 54, 2524.	0.9	12
125	Electrical Conductive Adhesives Enhanced with Highâ€ <scp>A</scp> spectâ€ <scp>R</scp> atio Silver Nanobelts. Macromolecular Materials and Engineering, 2014, 299, 739-747.	1.7	31
126	Tensile properties of fiber laser welded joints of high strength low alloy and dual-phase steels at warm and low temperatures. Materials & Design, 2014, 56, 193-199.	5.1	31

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127	Microstructure-properties correlation in fiber laser welding of dual-phase and HSLA steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 607, 445-453.	2.6	79
128	Mechanism of Secondary Hardening in Rapid Tempering of Dual-Phase Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 6153-6162.	1.1	22
129	Generation of oxygen vacancies in visible light activated one-dimensional iodine TiO ₂ photocatalysts. RSC Advances, 2014, 4, 36959-36966.	1.7	233
130	Resistance spot welding of AZ series magnesium alloys: Effects of aluminum content on microstructure and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 323-334.	2.6	47
131	Effects of Interfacial Lattice Mismatching on Wetting of Ni-Plated Steel by Magnesium. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5749-5766.	1.1	14
132	Decoupling of the softening processes during rapid tempering of a martensitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 615, 395-404.	2.6	34
133	Effects of concavity on tensile and fatigue properties in fibre laser welding of automotive steels. Science and Technology of Welding and Joining, 2014, 19, 60-68.	1.5	37
134	An Experimental Study of Transient Liquid Phase Bonding of the Ternary Ag-Au-Cu System Using Differential Scanning Calorimetry. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3708-3720.	1.1	17
135	Effects of Heat Treatment on Grain-Boundary β-Mg17Al12 and Fracture Properties of Resistance Spot-Welded AZ80 Mg Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3747-3756.	1.1	16
136	Thermo-chemical characterization of a Al nanoparticle and NiO nanowire composite modified by Cu powder. Thermochimica Acta, 2013, 572, 51-58.	1.2	21
137	Enhanced degradation of persistent pharmaceuticals found in wastewater treatment effluents using TiO2 nanobelt photocatalysts. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	51
138	Microstructure and fatigue properties of fiber laser welded dissimilar joints between high strength low alloy and dual-phase steels. Materials & Design, 2013, 51, 665-675.	5.1	82
139	Femtosecond laser induced surface melting and nanojoining for plasmonic circuits. Proceedings of SPIE, 2013, , .	0.8	7
140	Thermochemical Analysis of Phases Formed at the Interface of a Mg alloy-Ni-plated Steel Joint during Laser Brazing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 1937-1946.	1.1	19
141	Feasibility study of resistance spot welding of dissimilar Al/Mg combinations with Ni based interlayers. Science and Technology of Welding and Joining, 2013, 18, 541-550.	1.5	59
142	Highly localized heat generation by femtosecond laser induced plasmon excitation in Ag nanowires. Applied Physics Letters, 2013, 102, .	1.5	60
143	Nano Brazing of Pt-Ag Nanoparticles under Femtosecond Laser Irradiation. Nano-Micro Letters, 2013, 5, 88-92.	14.4	11
144	Palladium Nanoparticles Loaded on Carbon Modified TiO2 Nanobelts for Enhanced Methanol Electrooxidation. Nano-Micro Letters, 2013, 5, 202-212.	14.4	69

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145	Tensile and fatigue properties of fiber laser welded high strength low alloy and DP980 dual-phase steel joints. Materials & Design, 2013, 43, 373-383.	5.1	112
146	Selfâ€Oriented Nanojoining of Silver Nanowires via Surface Selective Activation. Particle and Particle Systems Characterization, 2013, 30, 420-426.	1.2	49
147	Multiple Memory Shape Memory Alloys. Advanced Engineering Materials, 2013, 15, 386-393.	1.6	70
148	Predicting Transient Softening in the Sub-Critical Heat-Affected Zone of Dual-Phase and Martensitic Steel Welds. ISIJ International, 2013, 53, 110-118.	0.6	24
149	Metal–Metal Bonding Process Using Cu+Ag Mixed Nanoparticles. Materials Transactions, 2013, 54, 879-883.	0.4	25
150	Mechanism of Low Temperature Sintering-Bonding through <i>In-Situ</i> Formation of Silver Nanoparticles Using Silver Oxide Microparticles. Materials Transactions, 2013, 54, 872-878.	0.4	14
151	Molecular Dynamics Simulation of Sintering and Surface Premelting of Silver Nanoparticles. Materials Transactions, 2013, 54, 884-889.	0.4	49
152	Palladium Nanoparticles Loaded on Carbon Modified TiO2 Nanobelts for Enhanced Methanol Electrooxidation. Nano-Micro Letters, 2013, 5, 202.	14.4	5
153	Microstructure, hardness and tensile properties of fusion zone in laser welding of advanced high strength steels. Canadian Metallurgical Quarterly, 2012, 51, 328-335.	0.4	15
154	EFFECTS OF HOLDING TIME ON HAZ-SOFTENING IN RESISTANCE SPOT WELDED DP980 STEELS. Materials Research Society Symposia Proceedings, 2012, 1485, 95-100.	0.1	1
155	Controlled joining of Ag nanoparticles with femtosecond laser radiation. Journal of Applied Physics, 2012, 112, .	1.1	34
156	Laser sintering of silver nanoparticle thin films: microstructure and optical properties. Applied Physics A: Materials Science and Processing, 2012, 108, 685-691.	1.1	85
157	Microscopy study of snail trail phenomenon on photovoltaic modules. RSC Advances, 2012, 2, 11359.	1.7	48
158	Room-temperature pressureless bonding with silver nanowire paste: towards organic electronic and heat-sensitive functional devices packaging. Journal of Materials Chemistry, 2012, 22, 12997.	6.7	66
159	Functionalization of silver nanowire surfaces with copper oxide for surface-enhanced Raman spectroscopic bio-sensing. Journal of Materials Chemistry, 2012, 22, 15495.	6.7	33
160	Thiocarboxylate functionalization of silver nanoparticles: effect of chain length on the electrical conductivity of nanoparticles and their polymer composites. Journal of Materials Chemistry, 2012, 22, 20048.	6.7	58
161	Femtosecond laser welded nanostructures and plasmonic devices. Journal of Laser Applications, 2012, 24, .	0.8	71
162	Adsorption and Photocatalytic Degradation Kinetics of Pharmaceuticals by TiO2 Nanowires During Water Treatment. Waste and Biomass Valorization, 2012, 3, 443-449.	1.8	71

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163	Reinforcement of Ag nanoparticle paste with nanowires for low temperature pressureless bonding. Journal of Materials Science, 2012, 47, 6801-6811.	1.7	51
164	Fiber Laser Welded AZ31 Magnesium Alloy: The Effect of Welding Speed on Microstructure and Mechanical Properties. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2133-2147.	1.1	41
165	Improvement of Bondability by Depressing the Inhomogeneous Distribution of Nanoparticles in a Sintering Bonding Process with Silver Nanoparticles. Journal of Electronic Materials, 2012, 41, 1924-1930.	1.0	27
166	Polymer-Protected Cu-Ag Mixed NPs for Low-Temperature Bonding Application. Journal of Electronic Materials, 2012, 41, 1886-1892.	1.0	40
167	Crossed-Wire Laser Microwelding of Pt-10ÂPct Ir to 316 Low-Carbon Vacuum Melted Stainless Steel: Part I. Mechanism of Joint Formation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 1223-1233.	1.1	9
168	Microstructure Refinement After the Addition of Titanium Particles in AZ31 Magnesium Alloy Resistance Spot Welds. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 598-609.	1.1	15
169	Crossed-Wire Laser Microwelding of Pt-10ÂPct Ir to 316 LVM Stainless Steel: Part II. Effect of Orientation on Joining Mechanism. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 1234-1243.	1.1	8
170	Tensile Properties and Work Hardening Behavior of Laser-Welded Dual-Phase Steel Joints. Journal of Materials Engineering and Performance, 2012, 21, 222-230.	1.2	62
171	Preparation of PVP coated Cu NPs and the application for low-temperature bonding. Journal of Materials Chemistry, 2011, 21, 15981.	6.7	183
172	New process of electroplate Sn bumping on TSV without a PR mould for 3D-chip stacking. Metals and Materials International, 2011, 17, 631-635.	1.8	2
173	Microstructure and Mechanical Properties of Fiber-Laser-Welded and Diode-Laser-Welded AZ31 Magnesium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1974-1989.	1.1	70
174	Mechanical and Functional Properties of Laser-Welded Ti-55.8ÂWtÂPct Ni Nitinol Wires. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2166-2175.	1.1	74
175	Tempering of Martensite in Dual-Phase Steels and Its Effects on Softening Behavior. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3115-3129.	1.1	156
176	Effect of Chemistry on Nonisothermal Tempering and Softening of Dual-Phase Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3242-3248.	1.1	39
177	Silver Nanoparticle Paste for Low-Temperature Bonding of Copper. Journal of Electronic Materials, 2011, 40, 1394-1402.	1.0	137
178	Hydrothermal growth of free standing TiO2 nanowire membranes for photocatalytic degradation of pharmaceuticals. Journal of Hazardous Materials, 2011, 189, 278-285.	6.5	150
179	Resistance microwelding of 316L stainless steel wire to block. Science and Technology of Welding and Joining, 2011, 16, 546-552.	1.5	6
180	A New Non-PRM Bumping Process by Electroplating on Si Die for Three Dimensional Packaging. Materials Transactions, 2010, 51, 1887-1892.	0.4	11

#	Article	IF	CITATIONS
181	Resistance-Spot-Welded AZ31 Magnesium Alloys: Part I. Dependence of Fusion Zone Microstructures on Second-Phase Particles. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1511-1522.	1.1	46
182	Softening Kinetics in the Subcritical Heat-Affected Zone of Dual-Phase Steel Welds. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2348-2356.	1.1	90
183	The Mechanisms of Resistance Spot Welding of Magnesium to Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2651-2661.	1.1	77
184	Resistance Spot Welded AZ31 Magnesium Alloys, Part II: Effects of Welding Current on Microstructure and Mechanical Properties. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2642-2650.	1.1	24
185	Low temperature sintering of Ag nanoparticles for flexible electronics packaging. Applied Physics Letters, 2010, 97, .	1.5	265
186	Electromagnetic impact welding of Mg to Al sheets. Science and Technology of Welding and Joining, 2009, 14, 549-553.	1.5	68
187	Electrode worksheet interface behaviour during resistance spot welding of Al alloy 5182. Science and Technology of Welding and Joining, 2009, 14, 295-304.	1.5	14
188	Bonding Mechanisms in Resistance Microwelding of 316 Low-Carbon Vacuum Melted Stainless Steel Wires. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 910-919.	1.1	14
189	InÂSitu Studies of the Effect of Ultrasound During Deformation on Residual Hardness of a Metal. Journal of Electronic Materials, 2009, 38, 647-654.	1.0	15
190	Comparison of Insulated with Bare Au Bonding Wire: HAZ Length, HAZ Breaking Force, and FAB Deformability. Journal of Electronic Materials, 2009, 38, 834-842.	1.0	8
191	Concurrent Optimization of Crescent Bond Pull Force and Tail Breaking Force in a Thermosonic Cu Wire Bonding Process. IEEE Transactions on Electronics Packaging Manufacturing, 2009, 32, 157-163.	1.6	16
192	Influence of superimposed ultrasound on deformability of Cu. Journal of Applied Physics, 2009, 106, .	1.1	76
193	Effects of superimposed ultrasound on deformation of gold. Journal of Applied Physics, 2009, 105, .	1.1	65
194	Transmission Electron Microscopy and Nanoindentation Study of the Weld Zone Microstructure of Diode-Laser-Joined Automotive Transformation-Induced Plasticity Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 593-603.	1.1	14
195	Influence of microstructure and weld size on the mechanical behaviour of dissimilar AHSS resistance spot welds. Science and Technology of Welding and Joining, 2008, 13, 769-776.	1.5	121
196	Effects of weld microstructure on static and impact performance of resistance spot welded joints in advanced high strength steels. Science and Technology of Welding and Joining, 2008, 13, 294-304.	1.5	125
197	Effects of Welding Parameters on the Mechanical Performance of Laser Welded Nitinol. Materials Transactions, 2008, 49, 2702-2708.	0.4	50
198	Effect of Forging Force on Fatigue Behavior of Spot Welded Joints of Aluminum Alloy 5182. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2007, 129, 95-100.	1.3	13

#	Article	IF	CITATIONS
199	Novel technique for laser lap welding of zinc coated sheet steels. Journal of Laser Applications, 2007, 19, 259-264.	0.8	63
200	Evolution of Cu/Al Intermetallic Compounds in the Copper Bump bonds during Aging Process. , 2007, , .		8
201	The Feasibility of Au Ball Bonding on Sn-Plated Cu. Journal of Electronic Materials, 2007, 36, 682-689.	1.0	2
202	A study of transient liquid-phase bonding of Ag-Cu using differential scanning calorimetry. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 2493-2504.	1.1	31
203	Footprint study of ultrasonic wedge-bonding with aluminum wire on copper substrate. Journal of Electronic Materials, 2006, 35, 433-442.	1.0	65
204	Characteristics of Sn–Cu Solder Bump Formed by Electroplating for Flip Chip. IEEE Transactions on Electronics Packaging Manufacturing, 2006, 29, 10-16.	1.6	23
205	Effects of Au plating on dynamic resistance during small-scale resistance spot welding of thin Ni sheets. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 1901-1910.	1.1	10
206	Bonding mechanism in ultrasonic gold ball bonds on copper substrate. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 1279-1286.	1.1	53
207	Interfacial phenomena and joint strength in resistance microwelding of crossed Au-plated Ni wires. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 2717-2724.	1.1	19
208	Mechanism of resistance microwelding of crossed fine nickel wires. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 3165-3176.	1.1	35
209	Electrode pitting in resistance spot welding of aluminum alloy 5182. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 217-226.	1.1	45
210	Effects of TiC composite coating on electrode degradation in microresistance welding of nickel-plated steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 1501-1511.	1.1	25
211	Electrode sticking during micro-resistance welding of thin metal sheets. IEEE Transactions on Electronics Packaging Manufacturing, 2002, 25, 355-361.	1.6	45
212	Pulsed Nd:YAG laser welding of copper using oxygenated assist gases. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 2019-2030.	1.1	57
213	A new hybrid process for surface modification by combining brush plating with nitrocarburizing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 2240-2244.	1.1	2
214	Formation of a TiB2-reinforced copper-based composite by mechanical alloying and hot pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 1275-1280.	1.1	45
215	Effects of au plating on small-scale resistance spot welding of thin-sheet nickel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 2667-2676.	1.1	40
216	Weldability of thin sheet metals by small-scale resistance spot welding using high-frequency inverter and capacitor-discharge power supplies. Journal of Electronic Materials, 2001, 30, 1012-1020.	1.0	35

#	Article	IF	CITATIONS
217	Analytical modeling of isothermal solidification during transient liquid phase (TLP) bonding. Journal of Materials Science Letters, 2001, 20, 841-844.	0.5	47
218	Microresistance spot welding of Kovar, steel, and nickel. Science and Technology of Welding and Joining, 2001, 6, 63-72.	1.5	55
219	Comparative study of small scale and †large scale' resistance spot welding. Science and Technology of Welding and Joining, 2001, 6, 273-280.	1.5	65
220	Weldability of thin sheet metals during small-scale resistance spot welding using an alternating-current power supply. Journal of Electronic Materials, 2000, 29, 1090-1099.	1.0	62