

Jenn-Ming Yang

List of Publications by Year in descending order

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104
papers

5,734
citations

94433

37
h-index

76900

74
g-index

113
all docs

113
docs citations

113
times ranked

5069
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Ultra-Incompressible Superhard Rhenium Diboride at Ambient Pressure. <i>Science</i> , 2007, 316, 436-439.	12.6	735
2	Processing and properties of magnesium containing a dense uniform dispersion of nanoparticles. <i>Nature</i> , 2015, 528, 539-543.	27.8	582
3	Improving the surface quality and mechanical properties by shot-peening of 17-4 stainless steel fabricated by additive manufacturing. <i>Materials and Design</i> , 2016, 110, 914-924.	7.0	300
4	Tensile properties of ultrahigh strength PAN-based, ultrahigh modulus pitch-based and high ductility pitch-based carbon fibers. <i>Carbon</i> , 2008, 46, 189-195.	10.3	208
5	Rapid fabrication of bulk-form TiB ₂ /316L stainless steel nanocomposites with novel reinforcement architecture and improved performance by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2016, 680, 480-493.	5.5	208
6	In-situ formation of novel TiC-particle-reinforced 316L stainless steel bulk-form composites by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2017, 706, 409-418.	5.5	193
7	Scanning strategies for texture and anisotropy tailoring during selective laser melting of TiC/316L stainless steel nanocomposites. <i>Journal of Alloys and Compounds</i> , 2017, 728, 424-435.	5.5	190
8	Correlation between hardness and elastic moduli of the ultraincompressible transition metal diborides RuB ₂ , OsB ₂ , and ReB ₂ . <i>Applied Physics Letters</i> , 2008, 92, .	3.3	183
9	Densification behavior, microstructural evolution, and mechanical properties of TiC/316L stainless steel nanocomposites fabricated by selective laser melting. <i>Materials and Design</i> , 2018, 138, 119-128.	7.0	182
10	Nanocrystalline TiC-reinforced H13 steel matrix nanocomposites fabricated by selective laser melting. <i>Materials and Design</i> , 2016, 96, 150-161.	7.0	149
11	Microstructural development of a Cf/ZrC composite manufactured by reactive melt infiltration. <i>Journal of the European Ceramic Society</i> , 2010, 30, 1527-1535.	5.7	134
12	Selective laser melting of TiB ₂ /316L stainless steel composites: The roles of powder preparation and hot isostatic pressing post-treatment. <i>Powder Technology</i> , 2017, 309, 37-48.	4.2	134
13	Spark Plasma Sintering of Zirconium Diborides. <i>Journal of the American Ceramic Society</i> , 2008, 91, 2848-2855.	3.8	102
14	Selective laser melting of TiB ₂ /H13 steel nanocomposites: Influence of hot isostatic pressing post-treatment. <i>Journal of Materials Processing Technology</i> , 2017, 244, 344-353.	6.3	94
15	The effect of gauge length on tensile strength and Weibull modulus of polyacrylonitrile (PAN)- and pitch-based carbon fibers. <i>Journal of Materials Science</i> , 2012, 47, 632-642.	3.7	90
16	In situ formation of TiC-particle-reinforced stainless steel matrix nanocomposites during ball milling: Feedstock powder preparation for selective laser melting at various energy densities. <i>Powder Technology</i> , 2018, 326, 467-478.	4.2	89
17	The impact properties and damage tolerance and of bi-directionally reinforced fiber metal laminates. <i>Journal of Materials Science</i> , 2007, 42, 948-957.	3.7	83
18	Bladder neck funneling on ultrasound cystourethrography in primary stress urinary incontinence: a sign associated with urethral hypermobility and intrinsic sphincter deficiency. <i>Urology</i> , 2003, 61, 936-941.	1.0	82

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19	Fracture Behavior of Directionally Solidified Y3Al5O12/Al2O3 Eutectic Fiber. Journal of the American Ceramic Society, 1996, 79, 1218-1222.	3.8	81
20	Enhancing the thermal conductivity of polyacrylonitrile- and pitch-based carbon fibers by grafting carbon nanotubes on them. Carbon, 2010, 48, 1849-1857.	10.3	72
21	Fatigue crack initiation in hybrid boron/glass/aluminum fiber metal laminates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 496, 273-280.	5.6	71
22	In situ measurements of stress evolution for nanotwin formation during pulse electrodeposition of copper. Journal of Applied Physics, 2009, 105, .	2.5	71
23	Incompressibility and Hardness of Solid Solution Transition Metal Diborides: Os1xRuB2. Chemistry of Materials, 2009, 21, 1915-1921.	6.7	70
24	Understanding the deformation behavior of 17-4 precipitate hardenable stainless steel produced by direct metal laser sintering using micropillar compression and TEM. International Journal of Advanced Manufacturing Technology, 2017, 90, 119-126.	3.0	64
25	Novel Strategy for One-Pot Synthesis of Gold Nanoplates on Carbon Nanotube Sheet As an Effective Flexible SERS Substrate. ACS Applied Materials & Interfaces, 2017, 9, 6246-6254.	8.0	60
26	Evaluation of residual strength of notched fiber metal laminates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 457, 338-349.	5.6	57
27	Flexural Properties of PAN and Pitch-Based Carbon Fibers. Journal of the American Ceramic Society, 2009, 92, 186-192.	3.8	57
28	Bladder Wall Thickness on Ultrasonographic Cystourethrography. Journal of Ultrasound in Medicine, 2003, 22, 777-782.	1.7	55
29	Transverse compressive properties of polyacrylonitrile (PAN)-based and pitch-based single carbon fibers. Carbon, 2017, 118, 168-183.	10.3	52
30	Nanomechanics of Refractory Transition-Metal Carbides: A Path to Discovering Plasticity in Hard Ceramics. Journal of the American Ceramic Society, 2015, 98, 2313-2323.	3.8	51
31	Cryomilling and spark plasma sintering of nanocrystalline magnesium-based alloy. Journal of Materials Research, 2011, 26, 904-911.	2.6	46
32	Integration of Heat Treatment with Shot Peening of 17-4 Stainless Steel Fabricated by Direct Metal Laser Sintering. Jom, 2017, 69, 2309-2313.	1.9	46
33	Tensile properties of carbon nanotubes grown on ultrahigh strength polyacrylonitrile-based and ultrahigh modulus pitch-based carbon fibers. Applied Physics Letters, 2008, 92, 231912.	3.3	44
34	Sonographic Findings of Acute Urinary Retention Secondary to an Impacted Pelvic Mass. Journal of Ultrasound in Medicine, 2002, 21, 1165-1169.	1.7	41
35	Microstructural Characterization of a C _f /ZrC Composite Manufactured by Reactive Melt Infiltration. International Journal of Applied Ceramic Technology, 2011, 8, 329-341.	2.1	41
36	One-Step Synthesis of Tunable-Size Gold Nanoplates on Graphene Multilayers. Nano Letters, 2018, 18, 1875-1881.	9.1	41

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37	Discrimination of Bladder Disorders in Female Lower Urinary Tract Symptoms on Ultrasonographic Cystourethrography. <i>Journal of Ultrasound in Medicine</i> , 2002, 21, 1249-1256.	1.7	39
38	Analytical modelling and numerical simulation of the nonlinear deformation of hybrid fibre-metal laminates. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2005, 13, 413-425.	2.0	38
39	Tensile properties of high strength polyacrylonitrile (PAN)-based and high modulus pitch-based hybrid carbon fibers-reinforced epoxy matrix composite. <i>Journal of Materials Science</i> , 2012, 47, 2743-2751.	3.7	38
40	High-resolution TEM characterization of SiC nanowires as reinforcements in a nanocrystalline Mg-matrix. <i>Materials Characterization</i> , 2013, 77, 81-88.	4.4	37
41	Effect of alloy composition on microstructure and high temperature properties of Nb-Zr-C ternary alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 341, 282-288.	5.6	36
42	Dynamic Interaction Involved in the Tension-Free Vaginal Tape Obturator Procedure. <i>Journal of Urology</i> , 2008, 180, 2081-2087.	0.4	33
43	High temperature mechanical behavior of Nb-Mo-ZrC alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 355, 260-266.	5.6	32
44	Correlation of Morphological Alterations and Functional Impairment of the Tension-Free Vaginal Tape Obturator Procedure. <i>Journal of Urology</i> , 2009, 181, 211-218.	0.4	32
45	The effect of surface modification with carbon nanotubes upon the tensile strength and Weibull modulus of carbon fibers. <i>Journal of Materials Science</i> , 2012, 47, 8044-8051.	3.7	30
46	Implications of abdominal straining in women with lower urinary tract symptoms. <i>Urology</i> , 2002, 60, 428-433.	1.0	28
47	Biologic Correlates of Sexual Function in Women with Stress Urinary Incontinence. <i>Journal of Sexual Medicine</i> , 2008, 5, 2871-2879.	0.6	28
48	Graphene template-induced growth of single-crystalline gold nanobelts with high structural tunability. <i>Nanoscale</i> , 2018, 10, 2764-2773.	5.6	28
49	High-temperature vapor deposition polymerization polyimide coating for elimination of surface nano-flaws in high-strength carbon fiber. <i>Carbon</i> , 2011, 49, 3881-3890.	10.3	27
50	Atmospheric pressure plasma effects on the adhesive bonding properties of stainless steel and epoxy composites. <i>Journal of Composite Materials</i> , 2014, 48, 219-233.	2.4	26
51	The effect of a compliant polyimide nanocoating on the tensile properties of a high strength PAN-based carbon fiber. <i>Composites Science and Technology</i> , 2009, 69, 1319-1322.	7.8	25
52	Determining the stress required for deformation twinning in nanocrystalline and ultrafine-grained copper. <i>Jom</i> , 2008, 60, 66-70.	1.9	24
53	Central and peripheral hemodynamics in severe preeclampsia. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 1996, 75, 120-126.	2.8	23
54	Blunt notch strength of hybrid boron/glass/aluminum fiber metal laminates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 2164-2173.	5.6	22

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55	Impact of reverse end-diastolic flow velocity in umbilical artery on pregnancy outcome after the 28th gestational week. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 1998, 77, 527-531.	2.8	21
56	Coarsening of Lamellar Microstructures in Directionally Solidified Yttrium Aluminate/Alumina Eutectic Fiber. <i>Journal of the American Ceramic Society</i> , 2001, 84, 2991-2996.	3.8	21
57	Ultrasonication-assisted synthesis of high aspect ratio gold nanowires on a graphene template and investigation of their growth mechanism. <i>Chemical Communications</i> , 2018, 54, 4124-4127.	4.1	21
58	Processing and Microstructural Development of In Situ TiN-Reinforced Silicon Nitride/Silicon Oxynitride Composites. <i>Journal of the American Ceramic Society</i> , 1992, 75, 2945-2952.	3.8	16
59	Transvaginal sonographic findings in vesicovaginal fistula. <i>Journal of Clinical Ultrasound</i> , 1994, 22, 201-203.	0.8	16
60	Factors affecting urethrocytographic parameters in urinary continent women. , 1996, 24, 249-255.		16
61	Reliability of Real-Time Ultrasound to Detect Pelvic Floor Muscle Contraction in Urinary Incontinent Women. <i>Journal of Urology</i> , 2009, 182, 2392-2396.	0.4	15
62	Relationship between acute fetal distress and maternal-placental-fetal circulations in severe preeclampsia. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 1995, 74, 419-424.	2.8	14
63	Transvaginal Sonography in the Treatment of a Rare Case of Total Urethral Stenosis With a Vesicovaginal Fistula. <i>Journal of Ultrasound in Medicine</i> , 2002, 21, 463-467.	1.7	14
64	Bearing strength of commingled boron/glass fiber reinforced aluminum laminates. <i>Composite Structures</i> , 2012, 94, 3160-3173.	5.8	14
65	Poly-dicyclopentadiene-wollastonite composites toward structural applications. <i>Journal of Composite Materials</i> , 2014, 48, 2023-2031.	2.4	13
66	Clinical and pathophysiological correlates of the symptom severity of stress urinary incontinence. <i>International Urogynecology Journal</i> , 2010, 21, 637-643.	1.4	11
67	The correlations of incontinence-related quality of life measures with symptom severity and pathophysiology in women with primary stress urinary incontinence. <i>World Journal of Urology</i> , 2010, 28, 619-623.	2.2	11
68	Factors associated with voiding function in women with lower urinary tract symptoms: A mathematic model explanation. <i>Neurourology and Urodynamics</i> , 2003, 22, 574-581.	1.5	10
69	Simplified Fabrication Strategy of Graphene Liquid Cells for the in Situ Transmission Electron Microscopy Study of Au Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4523-4530.	3.1	10
70	Bearing Strength Analysis of Hybrid Titanium Composite Laminates. <i>AIAA Journal</i> , 2008, 46, 2074-2085.	2.6	9
71	Microstructure Formation and Micropillar Compression of Al-TiC Nanocomposite Manufactured by Solidification Nanoprocessing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4620-4631.	2.2	9
72	Transvaginal Sonography in the Treatment of Acute Urinary Retention Due to Intravesical Blood Clots. <i>Journal of Ultrasound in Medicine</i> , 2003, 22, 851-854.	1.7	8

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73	Strengthening to softening transition in lath martensite. <i>Materialia</i> , 2019, 5, 100254.	2.7	8
74	Elevated Temperature Notch Sensitivity of Inconel 718 Manufactured by Selective Laser Melting. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 4882-4890.	2.5	8
75	Transperineal sonographic findings in a woman with urethral mucosa prolapse. <i>Journal of Clinical Ultrasound</i> , 2004, 32, 261-263.	0.8	7
76	A surgical technique to adjust bladder neck suspension in laparoscopic Burch colposuspension. <i>Journal of Minimally Invasive Gynecology</i> , 2006, 13, 289-295.	0.6	7
77	Menopause is associated with impaired responsiveness of involuntary pelvic floor muscle contractions to sudden intraabdominal pressure rise in women with pelvic floor symptoms: A retrospective study. <i>Neurourology and Urodynamics</i> , 2018, 37, 1128-1136.	1.5	7
78	Micro-mechanical properties of homogeneous- and inhomogeneous-structured pillars in Al-TiC nanocomposite: An in-situ study. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 762, 138084.	5.6	7
79	Failure Modes of a Unidirectional Ultra-High-Modulus Carbon-Fiber Carbon-Matrix Composite. <i>Journal of the American Ceramic Society</i> , 1995, 78, 623-632.	3.8	6
80	Fabrication and Characterization of Solid Composite Yarns from Carbon Nanotubes and Poly(dicyclopentadiene). <i>Nanomaterials</i> , 2020, 10, 717.	4.1	6
81	Reliability of a New Method for Assessing Tension and Configuration of Transobturator Suburethral Tapes Using Four-Dimensional Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2013, 39, 44-53.	1.5	5
82	Effects of electron beam irradiation and hydroxyl ion concentration on morphological stability of polyethylenimine-capped gold nanoparticles. <i>Materials Research Express</i> , 2019, 6, 125031.	1.6	5
83	Multiscale modeling of metal-composite interfaces in titanium-graphite fiber metal laminates part II: Continuum scale. <i>Journal of Composite Materials</i> , 2012, 46, 1235-1249.	2.4	4
84	Pelvic floor muscle functions are improved after successful transobturator vaginal mesh procedures. <i>Neurourology and Urodynamics</i> , 2017, 36, 380-384.	1.5	4
85	A Proximal Straining Mesh Location Is Associated With De Novo Stress Urinary Incontinence After Transobturator Mesh Procedures. <i>Journal of Ultrasound in Medicine</i> , 2017, 36, 539-545.	1.7	4
86	Five-year clinical and imaging outcomes of primary transobturator midurethral sling procedures for uncomplicated urodynamic stress incontinence. <i>Maturitas</i> , 2020, 138, 42-50.	2.4	4
87	Four-Dimensional Introital Ultrasound in Assessing Perioperative Pelvic Floor Muscle Functions of Women with Cystoceles. <i>Ultraschall in Der Medizin</i> , 2021, 42, e31-e41.	1.5	4
88	Applications of Ultrasonography in Female Lower Urinary Tract Symptoms: Diagnosis and Intervention. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2004, 43, 125-135.	1.3	3
89	The Effects of Electron Beam Melting on the Microstructure and Mechanical Properties of Ti-6Al-4V and Gamma-TiAl. <i>Microscopy and Microanalysis</i> , 2015, 21, 1177-1178.	0.4	3
90	Clinical Importance and Surgical Outcomes of Green Type III Cystocele in Women With Anterior Vaginal Prolapse. <i>Journal of Ultrasound in Medicine</i> , 2015, 34, 2279-2285.	1.7	3

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91	Association of Baseline Pelvic Floor Muscle Activities with Sexual and Urinary Functions In Female Stress Urinary Incontinence. <i>Journal of Sexual Medicine</i> , 2021, 18, 1698-1704.	0.6	3
92	Impact of reverse end-diastolic flow velocity in umbilical artery on pregnancy outcome after the 28th gestational week. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 1998, 77, 527-531.	2.8	2
93	Matched-pair analyses of resting and dynamic morphology between Monarc and TVT-O procedures by ultrasound. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2013, 169, 402-407.	1.1	2
94	The significance of pelvic floor support on the pelvic floor muscle functions of women with lower urinary tract symptoms. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2020, 59, 551-555.	1.3	2
95	Fabrication and characterization of bioresorbable zinc/WC nanocomposite springs for short bowel syndrome treatment. <i>Materials Letters</i> , 2020, 280, 128577.	2.6	2
96	Mini-Catheter Used for Bladder Drainage Following Stress-Incontinence Surgery and the Factors Relating to Drainage Failure. <i>Journal of Obstetrics and Gynaecology (Tokyo, Japan)</i> , 1995, 21, 319-324.	0.2	1
97	Effects on Hardness and Elastic Modulus for DSS-8 Peptide Treatment on Remineralization of Human Dental Tissues. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1132, 1.	0.1	1
98	In Situ and Ex Situ Nanomechanical Analysis of Reactive Nanolayer Solder Joints. <i>Advanced Engineering Materials</i> , 2009, 11, 645-649.	3.5	1
99	Mechanical Reliability Assessment of Cu ₆ Sn ₅ Intermetallic Compound and Multilayer Structures in Cu/Sn Interconnects for 3D IC Applications. , 2019, , .		1
100	Medium-term outcomes for primary native tissue reconstructive surgeries with and without transobturator vaginal meshes in stress continent women with stage 3 or higher pelvic organ prolapse. <i>Neurourology and Urodynamics</i> , 2020, 39, 261-270.	1.5	1
101	Automated Damage Detection of (C/C)/Si/SiC Composite Using Vibration Modes with Deep Neural Networks. <i>Journal of Composites Science</i> , 2021, 5, 301.	3.0	1
102	Morphologic Association of Female Lower Urinary Tract Symptoms with Anterior Vaginal Wall Relaxation in Primary Urodynamic Stress Incontinence. <i>Journal of Medical Ultrasound</i> , 2007, 15, 270-277.	0.4	0
103	Nanotwin-modified copper interconnects and its effect on the physical properties of copper. , 2009, , .		0
104	326 Tensile properties of carbon nanotubes grown on carbon fibers. <i>The Proceedings of the Materials and Processing Conference</i> , 2010, 2010.18, _326-1_-_326-5_.	0.0	0