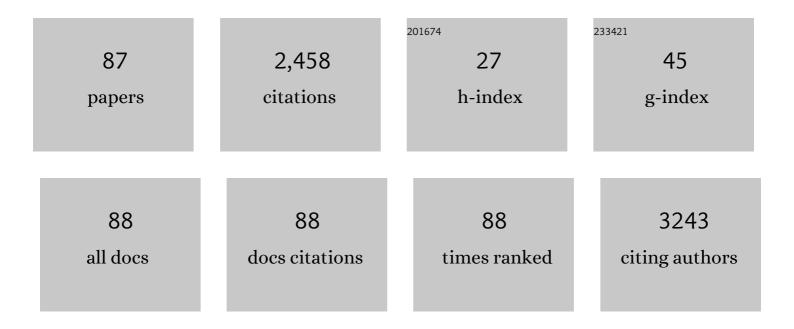
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fe3O4/TiO2 core/shell nanocubes: Single-batch surfactantless synthesis, characterization and efficient catalysts for methylene blue degradation. Ceramics International, 2014, 40, 11177-11186.	4.8	120
2	Biosynthesis of Gold Nanoparticles Assisted by <i>Sapindus mukorossi</i> Gaertn. Fruit Pericarp and Their Catalytic Application for the Reduction of <i>p</i> -Nitroaniline. Industrial & Engineering Chemistry Research, 2013, 52, 556-564.	3.7	118
3	Magnetophoretic circuits for digital control of single particles and cells. Nature Communications, 2014, 5, 3846.	12.8	104
4	Highly stable- silica encapsulating magnetite nanoparticles (Fe3O4/SiO2) synthesized using single surfactantless- polyol process. Ceramics International, 2014, 40, 1379-1385.	4.8	97
5	A novel approach for the synthesis of ultrathin silica-coated iron oxide nanocubes decorated with silver nanodots (Fe ₃ O ₄ /SiO ₂ /Ag) and their superior catalytic reduction of 4-nitroaniline. Nanoscale, 2015, 7, 12192-12204.	5.6	93
6	Synthesis of high magnetization hydrophilic magnetite (Fe3O4) nanoparticles in single reaction—Surfactantless polyol process. Ceramics International, 2013, 39, 7605-7611.	4.8	78
7	Facile sonochemical synthesis of high-moment magnetite (Fe3O4) nanocube. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	76
8	Ultra-sensitive 2-nitrophenol detection based on reduced graphene oxide/ZnO nanocomposites. Journal of Electroanalytical Chemistry, 2017, 788, 66-73.	3.8	72
9	Hierarchical gold nanostructures modified electrode for electrochemical detection of cancer antigen CA125. Sensors and Actuators B: Chemical, 2017, 243, 64-71.	7.8	71
10	Size-controlled high magnetization CoFe2O4 nanospheres and nanocubes using rapid one-pot sonochemical technique. Ceramics International, 2014, 40, 3269-3276.	4.8	70
11	Electrochemical biosensor for Mycobacterium tuberculosis DNA detection based on gold nanotubes array electrode platform. Biosensors and Bioelectronics, 2016, 78, 483-488.	10.1	67
12	Highly sensitive electrochemical biosensor based on naturally reduced rGO/Au nanocomposite for the detection of miRNA-122 biomarker. Journal of Industrial and Engineering Chemistry, 2021, 93, 186-195.	5.8	65
13	One-pot synthesis of high magnetization air-stable FeCo nanoparticles by modified polyol method. Materials Letters, 2013, 91, 326-329.	2.6	63
14	Morphology-controlled synthesis of highly crystalline Fe ₃ O ₄ and CoFe ₂ O ₄ nanoparticles using a facile thermal decomposition method. RSC Advances, 2016, 6, 15861-15867.	3.6	61
15	A facile route to sonochemical synthesis of magnetic iron oxide (Fe3O4) nanoparticles. Thin Solid Films, 2011, 519, 8277-8279.	1.8	60
16	Highly sensitive and selective detection of Bis-phenol A based on hydroxyapatite decorated reduced graphene oxide nanocomposites. Electrochimica Acta, 2017, 241, 353-361.	5.2	52
17	Shape and size-controlled synthesis of Ni Zn ferrite nanoparticles by two different routes. Materials Chemistry and Physics, 2014, 147, 443-451.	4.0	49
18	Spin-valve planar Hall sensor for single bead detection. Sensors and Actuators A: Physical, 2010, 157, 42-46.	4.1	43

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19	High field-sensitivity planar Hall sensor based on NiFe/Cu/IrMn trilayer structure. Journal of Applied Physics, 2010, 107, .	2.5	43
20	Nano/micro-scale magnetophoretic devices for biomedical applications. Journal Physics D: Applied Physics, 2017, 50, 033002.	2.8	38
21	Room Temperature Magnetic Detection of Spin Switching in Nanosized Spinâ€Crossover Materials. Angewandte Chemie - International Edition, 2013, 52, 1185-1188.	13.8	37
22	Magnetic Sensor System Using Asymmetric Giant Magnetoimpedance Head. IEEE Transactions on Magnetics, 2009, 45, 2727-2729.	2.1	36
23	Soft chemical synthesis and characterization of Ni0.65Zn0.35Fe2O4 nanoparticles. Journal of Applied Physics, 2007, 101, 123902.	2.5	32
24	Translocation of bio-functionalized magnetic beads using smart magnetophoresis. Biosensors and Bioelectronics, 2010, 26, 1755-1758.	10.1	32
25	Planar Hall resistance ring sensor based on NiFe/Cu/IrMn trilayer structure. Journal of Applied Physics, 2013, 113, .	2.5	31
26	A model for asymmetric giant magnetoimpedance in field-annealed amorphous ribbons. Applied Physics Letters, 2004, 85, 3507-3509.	3.3	29
27	Micro-magnetometry for susceptibility measurement of superparamagnetic single bead. Sensors and Actuators A: Physical, 2012, 182, 34-40.	4.1	29
28	Magnetic and electrical properties of bulk BaTiO3+MgFe2O4 composite. Journal of Magnetism and Magnetic Materials, 2011, 323, 564-568.	2.3	27
29	An organic substrate based magnetoresistive sensor for rapid bacteria detection. Biosensors and Bioelectronics, 2013, 41, 758-763.	10.1	27
30	Hybrid AMR/PHR ring sensor. Solid State Communications, 2011, 151, 1248-1251.	1.9	26
31	Dynamic trajectory analysis of superparamagnetic beads driven by on-chip micromagnets. Journal of Applied Physics, 2015, 118, 203904.	2.5	24
32	Planar Hall ring sensor for ultra-low magnetic moment sensing. Journal of Applied Physics, 2015, 117, .	2.5	24
33	Facile approach for synthesis of high moment Fe/ferrite and FeCo/ferrite core/shell nanostructures. Materials Letters, 2015, 139, 161-164.	2.6	24
34	An on-chip micromagnet frictionometer based on magnetically driven colloids for nano-bio interfaces. Lab on A Chip, 2016, 16, 3485-3492.	6.0	23
35	Remote tactile sensing system integrated with magnetic synapse. Scientific Reports, 2017, 7, 16963.	3.3	23
36	Size controlled sonochemical synthesis of highly crystalline superparamagnetic Mn–Zn ferrite nanoparticles in aqueous medium, lournal of Alloys and Compounds, 2015, 644, 774-782	5.5	22

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37	Concentric manipulation and monitoring of protein-loaded superparamagnetic cargo using magnetophoretic spider web. NPG Asia Materials, 2017, 9, e369-e369.	7.9	22
38	Magnetic Susceptibility Study of Subâ€Picoâ€emu Sample Using a Micromagnetometer: An Investigation through Bistable Spinâ€Crossover Materials. Advanced Materials, 2017, 29, 1703073.	21.0	22
39	The role of exchange coupling on the giant magnetoimpedance of annealed amorphous materials. Journal of Magnetism and Magnetic Materials, 2002, 249, 293-299.	2.3	20
40	Planar Hall bead array counter microchip with NiFe/IrMn bilayers. Journal of Applied Physics, 2008, 104, .	2.5	19
41	Optimization of Spin-Valve Structure NiFe/Cu/NiFe/IrMn for Planar Hall Effect Based Biochips. IEEE Transactions on Magnetics, 2009, 45, 2378-2382.	2.1	19
42	Mattertronics for programmable manipulation and multiplex storage of pseudo-diamagnetic holes and label-free cells. Nature Communications, 2021, 12, 3024.	12.8	19
43	Multifunctional Fe ₃ O ₄ /Au core/satellite nanocubes: an efficient chemical synthesis, characterization and functionalization of streptavidin protein. Dalton Transactions, 2017, 46, 2303-2309.	3.3	18
44	Hybrid planar Hall-magnetoresistance sensor based on tilted cross-junction. Journal Physics D: Applied Physics, 2009, 42, 055007.	2.8	17
45	Analytes kinetics in lateral flow membrane analyzed by cTnI monitoring using magnetic method. Sensors and Actuators B: Chemical, 2011, 160, 747-752.	7.8	17
46	Autonomous Magnetic Microrobots by Navigating Gates for Multiple Biomolecules Delivery. Small, 2018, 14, e1800504.	10.0	17
47	Reduced thermal dependence of the sensitivity of a planar Hall sensor. Applied Physics Letters, 2019, 115, .	3.3	17
48	Planar Hall resistance sensor for biochip application. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 4053-4057.	1.8	16
49	Facile one-pot chemical approach for synthesis of monodisperse chain-like superparamagnetic maghemite (γ-Fe2O3) nanoparticles. Journal of Industrial and Engineering Chemistry, 2015, 31, 43-46.	5.8	16
50	Synthesis of monodisperse and high moment nickel–iron (NiFe) nanoparticles using modified polyol process. Current Applied Physics, 2013, 13, 2010-2013.	2.4	15
51	Optimization of magnetic switches for single particle and cell transport. Journal of Applied Physics, 2014, 115, .	2.5	15
52	A novel and rapid approach for the synthesis of biocompatible and highly stable Fe ₃ O ₄ /SiO ₂ and Fe ₃ O ₄ /C core/shell nanocubes and nanorods. New Journal of Chemistry, 2017, 41, 2724-2734.	2.8	14
53	Scalable production of water-dispersible reduced graphene oxide and its integration in a field effect transistor. Journal of Industrial and Engineering Chemistry, 2018, 63, 19-26.	5.8	14
54	Advances and key technologies in magnetoresistive sensors with high thermal stabilities and low field detectivities. APL Materials, 2022, 10, .	5.1	14

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55	Modeling of asymmetric giant magnetoimpedance in amorphous ribbons with a surface crystalline layer. Journal of Magnetism and Magnetic Materials, 2005, 288, 130-136.	2.3	13
56	Modified polyol route for synthesis of Fe3O4/Ag and α-Fe/Ag nanocomposite. Journal of Alloys and Compounds, 2014, 615, S308-S312.	5.5	13
57	Effect of NiFeCr seed and capping layers on exchange bias and planar Hall voltage response of NiFe/Au/IrMn trilayer structures. Journal of Applied Physics, 2018, 123, .	2.5	13
58	Equisensitive adjustment of planar Hall effect sensor's operating field range by material and thickness variation of active layers. Journal Physics D: Applied Physics, 2019, 52, 285001.	2.8	13
59	Real-time monitored photocatalytic activity and electrochemical performance of an rGO/Pt nanocomposite synthesized <i>via</i> a green approach. RSC Advances, 2020, 10, 13722-13731.	3.6	13
60	Translocation of magnetic beads using patterned magnetic pathways for biosensing applications. Journal of Applied Physics, 2009, 105, 07B312.	2.5	12
61	Silica encapsulation of sonochemically synthesized iron oxide nanoparticles. Electronic Materials Letters, 2013, 9, 817-820.	2.2	12
62	Protein immobilization onto electrochemically synthesized CoFe nanowires. International Journal of Nanomedicine, 2015, 10, 645.	6.7	12
63	Free and forced Barkhausen noises in magnetic thin film based cross-junctions. Journal of Magnetism and Magnetic Materials, 2018, 458, 292-300.	2.3	12
64	Performance Validation of a Planar Hall Resistance Biosensor through Beta-Amyloid Biomarker. Sensors, 2020, 20, 434.	3.8	12
65	Magnetic Sensor-Based Detection of Picoliter Volumes of Magnetic Nanoparticle Droplets in a Microfluidic Chip. Journal of Magnetics, 2012, 17, 302-307.	0.4	12
66	Optimization of Pathway Pattern Size for Programmable Biomolecule Actuation. IEEE Transactions on Magnetics, 2013, 49, 408-413.	2.1	11
67	Multifarious Transit Gates for Programmable Delivery of Bioâ€functionalized Matters. Small, 2019, 15, e1901105.	10.0	11
68	Off-diagonal magnetoimpedance in field-annealed Co-based amorphous ribbons. Journal of Applied Physics, 2005, 98, 113908.	2.5	10
69	Magnetically Characterized Molecular Lubrication between Biofunctionalized Surfaces. ACS Applied Materials & amp; Interfaces, 2018, 10, 16177-16182.	8.0	10
70	Microvalve-controlled miniaturized electrochemical lab-on-a-chip based biosensor for the detection of β-amyloid biomarker. Journal of Industrial and Engineering Chemistry, 2021, 97, 349-355.	5.8	10
71	Magnetophoretic Decoupler for Disaggregation and Interparticle Distance Control. Advanced Science, 2021, 8, 2100532.	11.2	9
72	Selective Binding and Detection of Magnetic Labels Using PHR Sensor via Photoresist Micro-Wells. Journal of Nanoscience and Nanotechnology, 2011, 11, 4452-4456.	0.9	8

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73	Magnetophoretic Microâ€Distributor for Controlled Clustering of Cells. Advanced Science, 2022, 9, e2103579.	11.2	8
74	Ultrasonic alignment of bio-functionalized magnetic beads and live cells in PDMS micro-fluidic channel. Biomedical Microdevices, 2012, 14, 1077-1084.	2.8	6
75	Effect of magnetic field on the dielectric properties of multiferroic composites. Journal of the Korean Physical Society, 2012, 61, 1545-1549.	0.7	6
76	Influence of current amplitude on asymmetric off-diagonal magnetoimpedance in field-annealed amorphous ribbons. IEEE Transactions on Magnetics, 2005, 41, 3646-3648.	2.1	5
77	NiCo sensing layer for enhanced signals in planar hall effect sensors. Metals and Materials International, 2013, 19, 875-878.	3.4	5
78	Tailoring matter orbitals mediated using a nanoscale topographic interface for versatile colloidal current devices. Materials Horizons, 2022, 9, 2353-2363.	12.2	4
79	The effect of surface crystalline layers on asymmetric off-diagonal magnetoimpedance in field-annealed CoFeSiB amorphous ribbons. Journal of Magnetism and Magnetic Materials, 2006, 304, e186-e188.	2.3	3
80	Ultrasonic manipulation of magnetic particles in a microfluidic channel. International Journal of Precision Engineering and Manufacturing, 2014, 15, 1411-1416.	2.2	3
81	Operational Parameters for Sub-Nano Tesla Field Resolution of PHMR Sensors in Harsh Environments. Sensors, 2021, 21, 6891.	3.8	3
82	Phase controlled one-pot synthesis of heterostructured FePt–Fe3O4 nanocubes with excellent biocompatibility. RSC Advances, 2020, 10, 43480-43488.	3.6	3
83	Thermal annealing synthesis of Fe4N/Fe nanocomposites from iron oxide (Fe3O4) nanoparticles. Journal of the Korean Physical Society, 2014, 65, 1649-1652.	0.7	2
84	Characterization of Superparamagnetic Particles Mobility by On-Chip Micromagnets. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	2
85	The trajectory of bio-carriers in periodic energy landscape regulated by the multiple collision history in a magnetophoretic system. Journal of Science: Advanced Materials and Devices, 2022, 7, 100482.	3.1	2
86	Novel Planar Hall Sensor for Biomedical Diagnosing Lab-on-a-Chip. , 0, , .		0
87	Role of Spin on Future Biomedical Science: Logical Manipulation of Living Cells for Novel Cells-On-Chip. , 2016, , .		Ο