

(A) Research Publication (nos.)

Year	Number of Publications				
	Int. Journal (67)	Int. Conf. (27)	Nat. Journal (05)	Nat. Conf. (17)	Total (116)
2004		1 (1)			1
2005	1 (1)				1 (2)
2006				4 (4)	4 (6)
2007					0 (6)
2008				4 (8)	4 (10)
2009		1 (2)			1 (11)
2010	1 (2)	3 (5)			4 (15)
2011	2 (4)	2 (7)		2 (10)	6 (21)
2012	5 (9)	1 (8)			6 (27)
2013	2 (11)	4 (12)		1 (11)	7 (34)
2014	1 (12)	3 (15)			4 (38)
2015	2 (14)	2 (17)			4 (42)
2016			1 (1)		1 (43)
2017	5 (19)	3 (20)		2 (13)	10 (53)
2018	5 (24)		1 (2)	1 (14)	7 (60)
2019	6 (30)	1 (21)	1 (3)		8 (68)
2020	6 (36)	3 (24)			9 (77)
2021	5 (41)	1 (25)			6 (83)
2022	7 (48)	2 (27)	1 (4)		10 (93)
2023	9 (58)		1 (5)	3 (17)	13 (107)
2024	3 (61)				3 (110)
2025	6 (67)				6 (116)

International Journals Published (67)**2005 (1)**

1. K. M. Gupta and **S. J. Pawar**, "A Nonlinear Diffusion Model Incorporating Edge and Surface Texture Effects to Predict Absorption Behaviour of Composites", *Materials Science and Engineering A*, Vol. 412, Issue 1-2, pp. 78-82, Dec. 2005. DOI: 10.1016/j.msea.2005.08.034. (Citation – 11)

(Q1, Impact Factor - 2.090 (2010), Elsevier, **SCI, Scopus**, ISSN: 0921-5093)

2010 (1)

2. **S. J. Pawar**, YuFan Chung, and Jin H. Huang, "Mechanical Characterization and Parametric Study of a Miniature Capacitor Microphone", *Journal of the Audio Engineering Society*, Vol. 58, No. 4, pp. 299-307, April 2010. E-Library Location: (CD JAES58)/jaes58/4/pg299.pdf. Permalink: <http://www.aes.org/e-lib/browse.cfm?elib=15255>. (Citation – 4)

(Q1, Impact Factor - 0.483 (2010), peer-reviewed, **SCI, SCIE**, ISSN: 00047554, 15494950), Cited (abstract included) in Ch. 2 of ebook entitled "Issues in Engineering Research and Application: 2011 Edition", by Q. Ashton Acton, reported by Vertical News Engineering via VerticalNews.com on June 23, 2010.

2011 (2)

1. Chen-Hung Huang, **S. J. Pawar**, Zih-Jyun Hong, and Jin H. Huang, "Insert Earphone Modeling and Measurement by IEC-60711 Coupler", IEEE transactions on Ultrasonics, Ferroelectrics and Frequency Control", Vol. 58, Issue 2, pp 461-469, Feb. 2011. DOI: 10.1109/TUFFC.2011.1823. (Citation – 12)
(Q1, Impact Factor – 1.694 (2011), peer-reviewed, **SCI, SCIE**, ISSN: 0885-3010)
2. **Suryappa Jayappa Pawar**, Soar Weng, and Jin Huang Huang, "Experimental Verifications and Simulations of Magnetic Motor of Circular Miniature Loudspeaker for Total Harmonic Distortion", Applied Mechanics and Materials, Vol. 87, pp. 136-139, Aug. 2011. DOI: 10.4028/www.scientific.net/AMM.87.136. (Citation – 0)
(Impact Factor - (), Indexed by Elsevier: **SCOPUS**, EI Compendex (CPX), CSA, CA, Google and Google Scholar, ISI (ISTP, CPCI, **Web of Science**), IEE, etc., ISSN: 16609336)

2012 (5)

1. Chen-Hung Huang, **S. J. Pawar**, Zih-Jyun Hong, and Jin H. Huang, "Earbud-Type Earphone Modeling and Measurement by Head and Torso Simulator", Applied Acoustics, Vol. 73, Issue 5, pp. 461-469, May 2012. DOI: 10.1016/j.apacoust.2011.10.007. (Citation - 18)
(Q1, Impact Factor – 1.097 (2012), Elsevier, **SCI**, ISSN: 0003-682X)
2. Chun Chang, **S. J. Pawar**, Soar Weng, Y. C. Shiah, and Jin H. Huang, "Effect of Nonlinear Stiffness on the Total Harmonic Distortion and Sound Pressure Level of a Circular Miniature Loudspeaker-Experiments and Simulations", IEEE Transactions on Consumer Electronics, Vol. 58, No. 2, pp. 212-220, May 2012. DOI: 10.1109/TCE.2012.6227415. (Citation - 14)
(Q1, Impact Factor – 1.087 (2012), **SCI, SCIE**, ISSN: 0098-3063)
3. **S. J. Pawar**, Soar Weng, and Jin H. Huang, "Total Harmonic Distortion Improvement for Elliptical Miniature Loudspeaker Based on Suspension Stiffness Nonlinearity", IEEE Transactions on Consumer Electronics, Vol. 58, No. 2, pp. 221-227, May 2012. DOI: 10.1109/TCE.2012.6227416. (Citation - 11)
(Q1, Impact Factor – 1.087 (2012), **SCI, SCIE**, ISSN: 0885-3010)
4. Soar Weng, **S. J. Pawar**, and Jin H. Huang, "Magnetic Motor Nonlinearity Modifications for Total Harmonic Distortion Improvement of an Elliptical Microspeaker", IEEE Transactions on Magnetics, Vol. 48, No. 12, pp. 4811-4814, Dec. 2012. DOI: 10.1109/TMAG.2012.2204898. (Citation - 5)
(Q2, Impact Factor – 1.422 (2012), **SCI, SCIE**, ISSN: 0018-9464)
5. **S. J. Pawar** and Jin H. Huang, "Effect of Sponge and Position on the Frequency Response and Total Harmonic Distortion of Earbud-Type Earphone", Journal of Chinese Society of Mechanical Engineering, Vol.33, No. 6, pp 537-544, Dec. 2012. (Citation - 1)
(Q4, Impact Factor – 0.274 (2012), **SCIE**, Scopus, ISSN: 0257-9731)

2013 (2)

1. Ajitanshu Vedrtam, **S. J. Pawar**, and Rakesh Bhandari, "Ultrasonic Testing of Glass Fiber Reinforced Polypropylene Composites", International Journal of Mechanical Engineering and Technology (IJMET), Vol. 4, Issue. 4, pp 118 – 124, July-Aug. 2013, Article ID: 30120130404014. (Citation - 2)
(Impact Factor – 5.7731 (2013), (GISI), ISSN: 0976-6340 (Print), ISSN: 0976 – 6359 (Online))
2. Amit Kumar Singh Chauhan, Ajitanshu Mishra, Ujjwala Pandey, and **S. J. Pawar**, "Mechanism of Heat and Mass Transfer in Sandwiched Fibrous Insulations Subjected to Moisture Absorption and Condensation", International Journal of Engineering Research & Technology (IJERT), Vol. 2, Issue 11, pp 2793-2798 Nov. 2013. (Citation - 3)
(Impact Factor – 1.76 (2013), (e-ISSN: 2278-0181))

2014 (1)

1. Abdul Mannan and **S. J. Pawar**, "Anti-Infective Coating of Gentamicin Sulphate Encapsulated PEG/PVA/Chitosan for Prevention of Biofilm Formation", International Journal of Pharmacy and Pharmaceutical Sciences, Vol. 6, Issue 10, pp 571-576, Nov. 2014. (Citation - 9)
(Impact (Cites per doc) - 0.79 (2014), **Scopus, SCImago (SJR 2013), Google Scholar**, Elsevier, EBSCO, EMBASE, CAS, CASSI (American Chemical Society), Directory of Open Access Journal (DOAJ), Index Copernicus, ICAAP, Scientific commons,

2015 (2)

1. Yu-Ting Tsai, **S. J. Pawar**, and Jin H. Huang, "Optimizing Material Properties of Composite Plates for Sound Transmission Problem", *Journal of Sound and Vibration*, Vol. 335, pp 174-186, 20 Jan. 2015. DOI:10.1016/j.jsv.2014.09.031. (Citation - 23)
(Q1, Impact Factor - 2.107 (2015), **SCI**, ISSN: 0022-460X)
2. **S. J. Pawar**, W. S. Kuo, and J. H. Huang, "Exfoliated Graphite/Graphite Nanosheet-Epoxy Nanocomposites Revealed from the View Point of Synthesis Bottleneck", *MAHASARAKHAM International Journal of Engineering Technology*, Vol. 1, No. 1, pp 22-29, Jan.-June 2015., Published on 5 May, 2015. doi: 10.14456/mijet.2015.6. (Citation - 2)
(Impact Factor - , ISSN: 2408-1566 (Online) and ISSN: 2408-1957 (Print))

2017 (5)

1. Yu-Ting Tsai, **S. J. Pawar**, Chi-Chang Wang, and Jin H. Huang, "Preventing Damage to Miniature-Loudspeaker by means of Dynamic Detection of Excessive Diaphragm Displacement", *The Journal of the Acoustical Society of America*, Vol. 141, No. 3, pp.1615-1626, March 2017. DOI: 10.1121/1.4976146. (Citation - 2)
(Q1, Impact Factor - 1.547 (2016-17), 1.605 (2017-18), **SCI**, ISSN: 0001-4966)
2. **S. J. Pawar**, Yang Dane-Jong, Hong Ching Her, and J. H. Huang, "Electrostatic Polarization Process Control: A Case Study on Electret Condenser Microphone Production Line", *Journal of the Audio Engineering Society*, Vol. 65, Issue 4, pp. 321-332, April 2017. DOI: 10.17743/jaes.2017.0002. (Citation - 1)
(Impact Factor - 0.774 (2017-18), **SCI**, **SCIE**, ISSN: 00047554, 15494950)
3. Ajitanshu Vedrtanam and **S. J. Pawar**, "Laminated Plate Theories and Fracture of Laminated Glass Plate-A Review", *Engineering Fracture Mechanics*, Vol. 186, pp. 316-330, Dec. 2017. <https://doi.org/10.1016/j.engfracmech.2017.10.020>. (Citation - 91)
(Q1, Impact Factor - 2.58 (2017), **SCIE**, **Scopus**, ISSN: 0013-7944)
(Listed as article received most social media attention on PlumX Metrics of Engineering Fracture Mechanics)
4. Ajitanshu Vedrtanam and **S. J. Pawar**, "Experimental and Simulation Studies on Fracture of Laminated Glass having Polyvinyl Butyral and Ethyl Vinyl Acetate Interlayers of Different Critical Thicknesses due to Impact Load", *Glass Technology: European Journal of Glass Science and Technology Part A*, Vol. 58, No. 6, pp 169-178, Dec. 2017. DOI: 10.13036/17533546.58.6.005. (Citation - 23)
(Q4, Impact Factor - 0.282 (2017-18), **SCI Expanded**, **SCImago**, ISSN: 1753-3554, 1753-3554)
5. Ajitanshu Vedrtanam: and **S. J. Pawar**, "Numerical Analysis of Impact Fracture of Laminated Glass-A Review", *MOJ Civil Engineering*, Vol. 3, No. 6, Dec. 2017. DOI:10.15406/mojce.2017.03.00086. (Citation - 8)
(Impact Factor - , **SCI Expanded**, **SCImago**, ISSN: 2572-8520)

2018 (5)

1. Ajitanshu Vedrtanam and **S.J. Pawar**, "Experimental and Simulation Study on Fracture and Adhesive Test of Laminated Glass", *Engineering Fracture Mechanics*, Vol. 190, pp. 461-470, March 2018. <https://doi.org/10.1016/j.engfracmech.2017.12.044>. (Citation - 43)
(Q1, Impact Factor - 2.58 (2017), **SCI**, **SCIE**, **Scopus**, ISSN: 0013-7944)
2. Vedrtanam, Ajitanshu and **Pawar, S. J.**, "Experimental and Simulation Studies on Acoustical Characterisation of Laminated Safety Glass", *Glass Technology-European Journal of Glass Science and Technology Part A*, Vol. 59, No. 2, pp 58-70(13), April 2018. DOI: <https://doi.org/10.13036/17533546.59.2.008>. (Citation - 9)
(Q4, Impact Factor - 0.282 (2017-18), **SCI Expanded**, **SCImago**, ISSN: 1753-3546 (Print), 1753-3554)
3. A. Vedrtanam and **S. J. Pawar**, "Experimental and Simulation Studies on Fatigue Behavior of Laminated Glass having Polyvinyl Butyral and Ethyl Vinyl Acetate Interlayers", *Fatigue & Fracture of Engineering Materials and Structures*, Vol. 41, No. 6, pp 1437-1446, June 2018. <https://doi.org/10.1111/ffe.12788>. (Citation - 25)
(Q1, Impact factor - 2.533 (2018), **Scopus**, **SCI Expanded**, **SCImago**, ISSN: 1460-2695)

4. A. Vedrtam and **S. J. Pawar**, “Experimental and Simulation Studies on Flexural Strength of Laminated Glass Using Ring-on-Ring and Three-Point Bending Test”, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Sage Publication, Vol. 232, Issue 21, pp 3930-3941, Nov. 2018. doi: 10.1177/0954406217744815. (Citation - 23)
(Q2, Impact Factor - 0.996 (2017), **SCI**, ISSN: 0954-4062)
5. Yin-Cheng Jian, Yu-Ting Tsai, and **S. J. Pawar**, “Parameter Optimization Method for Identifying the Optimal Nonlinear Parameters of a Miniature Transducer with a Metal Membrane”, Applied Sciences, Vol. 8, Issue 12, pp. 2647-3941, Dec. 2018. DOI: <https://doi.org/10.3390/app8122647>. (Citation - 3)
(Q2, Impact Factor - 2.474 (2019), **Web of Science**, **SCIE**, **Scopus**, ISSN: 2076-3417)

2019 (6)

1. Rajat Rastogi and **S. J. Pawar**, “A Computational Study of Shape Memory Effect and Pseudoelasticity of NiTi Alloy under Uniaxial Tension during Complete and Partial Phase Transformation”, Materials Research Express, Vol. 6, No. 5, pp 055702, May 2019. DOI: <https://doi.org/10.1088/2053-1591/ab06e1>. (Citation - 11)
(Q2, Impact Factor - 1.929 (2019), (**Scopus**, **Web of Science**, **SCIE**, Current Contents/Physical Chemical and Earth Sciences), ISSN: 20531591)
2. P. Shakti Prakash, **S. J. Pawar**, and R. P. Tewari, “Synthesis, Characterization and Coating of Forsterite (Mg_2SiO_4) based Material over Medical Implants-A Review”, Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, Published online on 18th April 2017, Vol. 233, Issue 6, pp 1227-1240, Issue published: June 1, 2019. <https://doi.org/10.1177/1464420717705151>. (Citation - 11)
(Q2, Impact Factor - 1.281 (2017), **SCI Expanded**, **Scopus**, ISSN: 1464-4207)
3. Vedrtam, Ajitanshu and **Pawar, S. J.** “Experimental and Simulation Studies on Bending Behavior of Laminated Glass with Polyvinyl Butyral and Ethyl Vinyl Acetate Inter-layers of Different Critical Thicknesses”, Journal of Sandwich Structures and Materials. Vol. 21, Issue 7, pp. 2219-2238, Oct. 2019, <https://doi.org/10.1177/1099636219830143>. (Citation - 12)
(Q1, Impact Factor - 5.05 (2019), **SCI Expanded**, **Scopus**, ISSN: 10996362)
4. A. Vedrtam and **S. J. Pawar**, “Ring-on-Ring Testing of Laminated Glass with Polyvinyl Butyral and Ethyl Vinyl Acetate Inter-layers of Different Critical Thicknesses”, Journal of the Australian Ceramic Society, Vol. 55, Issue 4, pp. 977–986, December 2019. <https://doi.org/10.1007/s41779-019-00309-7>. (Citation - 4)
(Q3, Impact Factor - 1.307 (2019), **SCIE**, **Scopus**, ISSN: 2510-1560)
5. Kishor Kalauni and **S. J. Pawar**, “A Review on the Taxonomy, Factors Associated with Sound Absorption and Theoretical Modelling of Porous Sound Absorbing Materials”, Journal of Porous Materials, Vol. 26, No. 6, pp. 1795–1819, December 2019. DOI: 10.1007/s10934-019-00774-2. (Citation - 148)
(Q2, Impact Factor - 2.183 (2019), **SCI**, **SCIE**, **Scopus**, ISSN: 1380-2224 (Print), 1573-4854 (Online))
6. Sawan Kumar, Ajitanshu Vedrtam, and **S. J. Pawar**, “Effect of Wood Dust type on Mechanical Properties, Wear Behavior, Biodegradability, and Resistance to Natural Weathering of Wood-Plastic Composites”, Frontiers of Structural and Civil Engineering, Vol. 13, Issue 6, pp. 1446–1462, December 2019. DOI: <https://doi.org/10.1007/s11709-019-0568-9>, CN 10-1023/X. (Citation - 41)
(Q1, Impact Factor: 1.947 (2017), **SCIE**, **Scopus**, ISSN: 2095-2430 (Print) ISSN 2095-2449 (Online))

2020 (6)

1. Abhishek Nigam and **S. J. Pawar**, “Structural, Magnetic, and Antimicrobial Properties of Zinc Doped Magnesium Ferrite for Drug Delivery Applications”, Ceramics International, Vol. 46, No. 4, pp. 4058-4064, March 2020. DOI: 10.1016/j.ceramint.2019.10.243. (Citation - 163)
(Q1, Impact Factor: 3.83, **SCI**, **Scopus**, ISSN: 0272-8842)
2. A. Vedrtam and S. J. Pawar, “Laminated Glass: Classification, Characterization, and Future Perspectives”, Journal of Materials Education, Vol. 42, Issue 1-2, pp. 51-61, April 2020. (Citation - 8)
(Impact Factor: 0.621 (2019-20), **SCIE**, **Scopus**, **Google Scholar**, ISSN: 0738-7989)
3. P. S. Prakash, T. S. Sharan, **S. J. Pawar**, R. P. Tewari, and S. Sharma, “Wavelet-Based Noise Removal from Raman Signal to Study PLD Coated Forsterite-Hydroxyapatite Thin Film on Stainless Steel 316L

Substrate”, *Zhurnal Prikladnoii Spektroskopii* (In English “Journal of Applied Spectroscopy”), Vol. 87, No. 3, pp. 507(1)-507(8), May 2020. (Citation - 3)

(Q4, Impact Factor - 0.6 (2019-20), **SCIE**, **Scopus**, **Google Scholar**, ISSN: 00219037, 15738647)

4. Yu-Ting Tsai, Chien-Hui Lee, Tao-Ying Liu, Tien-Jan Chang, Chun-Sheng Wang, **S. J. Pawar**, Pei-Hsing Huang, and Jin-H. Huang, “Utilization of a Reinforcement Learning Algorithm for the Accurate Alignment of a Robotic Arm in a Complete Soft Fabric Shoe Tongues Automation Process”, *Journal of Manufacturing Systems*, Vol.56, pp. 501-513, July 2020. (Citation - 36)

(Q1, Impact Factor - 5.105 (2019), **SCIE**, **Scopus**, **Web of Science**, ISSN: 0278-6125)

5. **S. J. Pawar**, Y. C. Liu, and Jin H. Huang, “Variation in the Acoustic Measurement of Earbud Earphones in an Anechoic Chamber Due to Changes in the Earphone Placement in Ear Concha,” *Canadian Acoustics*: Vol. 48, No. 4, pp. 29-40, Dec. 2020. <https://jcaa.caa-aca.ca/index.php/jcaa/article/view/3380>. (Citation - 0)

(Impact Factor - 1.100 (2019), **SCIE**, **Scopus**, **SCImago**, ISSN: 1839-2571)

6. Vedrtnam Ajitanshu, Sagar Dheeraj, Jain Anuj, and **Pawar S. J.**, “Review on technical studies on performance boosters in golf”, *ACADEMICIA: An International Multidisciplinary Research Journal*, Vol. 10, Issue 12, pp. 496-505, Dec. 2020, Online published on 12 February, 2021, DOI: 10.5958/2249-7137.2020.01785.1. (Citation - 0)

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2021 (5)

1. Je Ru Chen, **S. J. Pawar**, and Jin H. Huang, “Structural Modifications of Headphone Front Chamber for Better Frequency Response: Experimental and Simulation Studies”, *Acoustics Australia*, Volume 49, issue 1, pp. 69-82, March 2021. <https://doi.org/10.1007/s40857-020-00211-4>. (Citation - 1)

(Q2, Impact Factor - 5.105 (2019), **SCIE**, **Scopus**, **Web of Science**, ISSN: 0278-6125)

2. Vedrtnam Ajitanshu, Gunwant Dheeraj, Chaturvedi Shashkant, Sagar Dheeraj, and **Pawar, S. J.**, “Experimental and Numerical Study on Abrasive Water Jet Machining of Laminated Glass”, *Glass Technology-European Journal of Glass Science and Technology Part A*, Volume 62, Number 2, pp. 65-74(10), April 2021, <https://doi.org/10.13036/17533546.62.2.002>. (Citation - 2)

(Impact Factor - 5.105 (2019), **SCIE**, **Scopus**, **Web of Science**, ISSN: 0278-6125)

3. Abhishek Nigam, Sheetal Saini, Ambak Kumar Rai, and **S. J. Pawar**, “Structural, Optical, Cytotoxicity, and Antimicrobial Properties of MgO, ZnO and MgO/ZnO Nanocomposite for Biomedical Applications”, *Ceramics International*, Volume 47, Issue 14, 15 July 2021, Pages 19515-19525. DOI: <https://doi.org/10.1016/j.ceramint.2021.03.289>. (Citation - 71)

(Q1, Impact Factor - 3.83, **SCI**, **Scopus**, ISSN: 0272-8842)

4. Abhishek Nigam, Sheetal Saini, Ambak Kumar Rai, and **S. J. Pawar**, “Structural, Morphological, Antimicrobial, and Cytotoxicity Study of Spindle-shaped ZnO Submicron Particles for Potential Biomedical Applications”, *Materials Today Communications*, Volume 28, Issue 18, Sept. 2021, 102683 DOI: 10.1016/j.mtcomm.2021.102683. (Citation - 14)

(Q2, Impact Factor - 3.383, **SCIE**, ISSN: 2352-4928)

5. T. Gobikannan, Habtemariam Berihun, Eset Aklilu, **S. J. Pawar**, Genzeb Akele, Tewodros Agazie, and Seyoum Bihonegn, “Development and Characterization of Sisal Fiber and Wood Dust-Reinforced Polymeric Composites”, *Journal of Natural Fibers*, Online: 09 Jan 2020, Vol. 18, Issue 11, pp. 1924-1933, Nov. 2021, DOI.org/10.1080/15440478.2019.1710649. (Citation - 25)

(Q2, Impact Factor - 5.323 (2020), **SCIE**, **Web of Science**, ISSN: 1544-0478 (Print) 1544-046X (Online))

2022 (7)

1. Shagun Varshney, Abhishek Nigam, **S. J. Pawar**, and Nidhi Mishra, “An Overview on Biomedical Applications of Versatile Silica Nanoparticles, Synthesized via Several Chemical and Biological Routes: A Review”, *Phosphorus, Sulfur, and Silicon and the Related Elements*, Published online: 21 Dec. 2021, Vol. 197, Issue 2, pp. 72-88, Feb. 2022, <https://doi.org/10.1080/10426507.2021.2017434>. (Citation - 38)

(Q4, Impact Factor - 1.082 (2020), **SCIE**, **Scopus**, **Web of Science**, Print ISSN: 1042-6507, Online ISSN: 1563-5325)

2. Abhishek Nigam, Sheetal Saini, Bharat Singh, Ambak Kumar Rai, and **S. J. Pawar**, “Zinc Doped Magnesium Ferrite Nanoparticles for Evaluation of Biological Properties viz Antimicrobial, Biocompatibility, and In Vitro Cytotoxicity”, *Materials Today Communications*, Volume 31, 103632, June 2022, <https://doi.org/10.1016/j.mtcomm.2022.103632>. (Citation - 32)
(Q2, Impact Factor - 3.383 (), **SCIE**, ISSN: 2352-4928)
3. Shagun Varshney, Abhishek Nigam, **S. J. Pawar**, and Nidhi Mishra, “Structural, Optical, Cytotoxic, and Antimicrobial Properties of Amorphous Silica Nanoparticles Synthesised via Hybrid Method for Biomedical Applications”, *Materials Technology: Advanced Performance Materials*, Accepted on 2nd August 2021, Vol. 37, Issue 10, pp. 1504-1515, Aug. 2022, DOI: 10.1080/10667857.2021.1959190. (Citation – 26)
(Q2, Impact Factor - 3.297 (2021), **SCI**, **Scopus**, Print ISSN: 1066-7857, Online ISSN: 1753-5557)
4. Y. C. Liu, **S. J. Pawar**, and J. H. Huang, “Inverse Determination of Acoustic Properties of Acoustic Ventilation Cloth (Woven and Non-Woven) by Particle Swarm Optimization and Estimation of Its Effect on the Frequency Response of the Microspeaker”, *Applied Sciences*, Vol. 12, Issue 17, 8588 (1-17), Sept. 2022, <https://doi.org/10.3390/app12178588>. (Citation - 1)
(Q2, Impact Factor - 2.838 (2021), **SCIE**, **Scopus**, **Web of Science**, ISSN: 2076-3417)
5. Sandeep K. Vishwakarma and **S. J. Pawar**, “Analytical and computational acoustic modeling of side outlet muffler and its extension in the modeling of tapered side outlet muffler”, *Archives of Acoustics*, online on 15th Sept. 2022, Vol. 47, No. 4, pp. 491-499, Oct. 2022, DOI: 10.24425/aoa.2022.142893. (Citation - 3)
(Impact Factor - 1.043 (2021), **SCIE**, **Scopus**, **SCImago**, Print ISSN: 0137-5075, Online ISSN: 2300-262X)
6. Abhishek Nigam and **S. J. Pawar**, “Structural, Optical, Antimicrobial Properties with Drug Loading and Drug Release of Five Different ZnO Nano and Sub-Micron Particles for Biomedical Applications”, *Materials Technology: Advanced Performance Materials*, Published Online: 14 Sep 2021, Vol. 37, Issue 11, pp. 1716-1724, Sept. 2022, <https://doi.org/10.1080/10667857.2021.1978636>. (Citation - 12)
(Q2, Impact Factor - 3.846 (2020), **SCI**, **Scopus**, Print ISSN: 1066-7857, Online ISSN: 1753-5557)
7. Abhishek Nigam, Kishor Kalauni, and **S. J. Pawar**, “Physio-chemical Characterizations and Antimicrobial Properties of Nano-Sized Mg-Zn Ferrite Particles for Biomedical Applications”, *Materials Technology Advanced Performance Materials*, Published online: 28 Feb 2022, Volume 37, Issue 13, pp. 2490-2502, 2022. <https://doi.org/10.1080/10667857.2022.2043649>. (Citation - 4)
(Q2, Impact Factor - 3.846 (2020), **SCI**, **Scopus**, Print ISSN: 1066-7857, Online ISSN: 1753-5557)

2023 (09)

1. Shagun Varshney, Abhishek Nigam, **S. J. Pawar**, and Nidhi Mishra, “Microwave-Assisted Synthesis of Magnesium Oxide Nanoflakes via Green Chemistry Approach Using Ficus Racemosa Leaf Extract; Characterization and Antibacterial Activity”, Ms. No. UOPP-2022-0052, *Journal of the Korean Ceramic Society (JKCS)*, published online on 2nd Aug. 2022, Vol. 60, No. 1, pp 62-74, Jan. 2023, DOI: 10.1007/s43207-022-00236-7. (Citation - 11)
(Impact Factor - 2.506 (2021), **Scopus**, **SCImago**, **Google Scholar**, Electronic ISSN: 2234-0491, Print ISSN: 1229-7801)
2. T. Gobikannan, **S. J. Pawar**, S. Kubera Sampath Kumar, Md. Vaseem Chavhan, Amin Hirenabhai Navinbhai, and C. Prakash, “Importance of Antiviral and Antibacterial Face Mask Used in Pandemics: An Overview”, *Journal of Natural Fibers*, published online on 9th Jan., 2023 (Article: 2160407), Vol. 20, Issue1, pp. 2160407, Jan. 2023, DOI: <https://doi.org/10.1080/15440478.2022.2160407>. (Citation - 16)
(Q1, Impact Factor - 3.507 (2021), **SCIE**, **Scopus**, **Web of Science**, Print ISSN: 1544-0478 Online ISSN: 1544-046X)
3. Kishor Kalauni and **S. J. Pawar**, “Estimation of the Physical Parameters of Grewia Optiva Fibers and Prediction of Sound Absorption Coefficient with Theoretical Models”, *Journal of Natural Fibers*, published online on 11th Jan., 2023 (Article: 2160407), Vol. 20, Issue 1, pp. --, Jan. 2023, DOI: <https://doi.org/10.1080/15440478.2022.2162189>. (Citation - 4)
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4. P. Shakti Prakash, **Suryappa Jayappa Pawar**, and Ravi Prakash Tewari, “Preparation and Biological Evaluation of PLD-Based Forsterite-Hydroxyapatite Nanocomposite Coating on Stainless Steel 316L”, *Surface Review and Letters*, 2141002, 2021 (Online Ready), Vol. 30, No. 1, 2141002 (12 pages), Jan. 2023, <https://doi.org/10.1142/S0218625X2141002X>. (Citation - 0)

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2018 (1)

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2019 (1)

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2022 (1)

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2023 (1)

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International Conferences **Published (27)**

2004 (1)

1. K. M. Gupta and **S. J. Pawar**, "A Nonlinear Diffusion Model Incorporating Edge and Surface Texture Effects to Predict Absorption Behaviour of Composites", International Conference on Recent Advances in Composite Materials (ICRACM 2004), IT BHU, Varanasi, 17-19 Dec. 2004. (Poster Presentation)

2009 (1)

1. Y. F. Chung, **S. J. Pawar**, and J. H. Huang, "Mechanical Characterization of Capacitor Microphone for Analysis and Study", 157th Meetings of the Acoustical Society of America, Portland, Oregon, 18-22 May 2009. (Accepted for oral presentation - not presented) Abstract published The Journal of the Acoustical Society of America, 125, 2595 (2009); <https://doi.org/10.1121/1.4783876>

2010 (3)

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2. **S. J. Pawar**, YuFan Chung, and Jin H. Huang, "Performance Verification of a Miniature Capacitor Microphone using Mechanical Characterization", International conference on "Convergence of Science & Engineering in Education and Research, A Global Perspective In The New Millennium, (ICSE-2010), Dayananda Sagar Institutions, Bangalore, Karnataka, INDIA, 21-23April 2010. (Published and presented)
3. **S. J. Pawar**, H. C. Her, and J. H. Huang, "Parametric Simulation Study of Miniature Loudspeaker for Performance Evaluation and Improvement", 20th International Congress on Acoustics, (ICA 2010), 23-27 Aug. 2010, Sydney, Australia. (Web address : http://www.acoustics.asn.au/conference_proceedings/ICA2010/cdrom-ICA2010/papers/p1026.pdf) (Oral presentation-p798 and published)(Citation - 8)

2011 (2)

1. Jin H. Huang and **S. J. Pawar**, "Earbud-Type Earphone Modeling and Measurement", Eighth International Conference for Mesoscopic Methods in Engineering and Science (ICMMES-011), Lyon, France, 4-8July 2011. (Poster presentation)
2. **Suryappa Jayappa Pawar**, Soar Weng, and Jin Huang Huang, "Experimental Verifications and Simulations of Magnetic Motor of Circular Miniature Loudspeaker for Total Harmonic Distortion Improvement", 2011 International Conference on Applied Mechanics and Manufacturing Technology (AMMT'11), Bali, Indonesia, 4-5Aug. 2011. (Oral presentation)

2012 (1)

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1. **S. J. Pawar**, Steven Her, and J. H. Huang, "Some Studies on Electret Condenser Microphone Production Line for Reduction in Rejection Rate by Electrostatic Polarization Process Control", The Fifth International Conference on Science, Technology and Innovation for Sustainable Well-Being (STISWB V 2013), Luang Prabang, pp. 117, Paper ID – EEE04, 4-6Sept. 2013. (Published)
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3. P. K. Singh and **S. J. Pawar**, "Some Investigations on the Sound Field (Sound Propagation) Measurement in a Rectangular Room", International Conference On "Advances in Mechanical, Automobile and Aerospace Engineering" (AMAAE- 2013), Jawaharlal Nehru University, New Delhi, 21-22 Sept. 2013. (Published by Int. Journal of Engineering Research and Technology, ISSN 0974-3154, Vol. 6, No. 4, pp. 487-494, 2013)
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2014 (3)

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2. **S. J. Pawar** and S. S. Pawar, "Homeopathy: An Alternative Medicine Reviewed from Nanotechnology and Nanoscience Prospective", International Conference on Nanoscience and Nanotechnology (ICNSNT-2014), at Colombo, Sri Lanka, 12-13 Aug. 2014. (Oral presentation and abstract publication)
3. Yu T. Tsai, **S. J. Pawar**, and Jin H. Huang, "Material Properties Inverse Problem of Composite Plates for Specific Sound Transmission Loss", International Conference on Multifunctional Materials, Structures and Applications (ICMMSA-2014), at MNNIT, Allahabad, India, 22-24 Dec. 2014.

2015 (2)

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2. Ajitanshu Vedrtnam and **S. J. Pawar**, "Comparative Evaluation and Regression Analysis of PVB, EVA, and SG Inter Layered Laminated Glass Hardness", 2nd International Conference on Recent Innovations In Science, Engineering and Management (ICRISEM), Jawaharlal Nehru University (JNU, Convention Center), New Delhi, 22 Nov. 2015. (Citation - 11)

2017 (3)

1. Yogendra Pratap Singh, Abhishek, and **S. J. Pawar**, "Characterization of Silica Nano-Particles Synthesized by Thermo-Mechanical Route", 3rd International Conference on Recent Development in Engineering Science, Humanities and Management (ESHM17), National Institute of Technical Teachers Training & Research, Chandigarh, India, 14 May 2017, (Published in International Journal of Advance Research in Science and Engineering (IJARSE) (ISSN: 2319-8354) Vol. No. 6, Issue No. 5, May 2017). (Oral presentation in conference) **Best Paper Award.** (Citation - 7)
2. **S. J. Pawar** and Ruchi Singh, "Parametric Simulation and Flow Visualization of Micro-diffuser used in MEMS and Microsystem Devices", International Academic Conference on Engineering, Technology and Innovations (IACETI), Phnom Penh, Cambodia, 3-4 July 2017, (Published in International Journal of Mechanical and Production Engineering (IJMPE) (ISSN: 2320-2092) Vol. 5, Issue No. 9, pp. 55-60, Sept. 2017), (Oral presentation in conference as keynote address)

3. Abhishek, Faiz Ahmad, and **S. J. Pawar**, "Design and Simulation of Geometrical Shape and Size Variations of Micro-Electrode for Cochlear Implant", International Conference on Biotechnology and Biological Sciences (Biospectrum 2017), 25-26 Aug. 2017. **Best Paper Award**. Published as Springer book chapter (In: Sadhukhan, P., Premi, S. (eds) Biotechnological Applications in Human Health. Springer, Singapore. Published on 09 May 2020, Print ISBN978-981-15-3452-2, Online ISBN978-981-15-3453-9, https://doi.org/10.1007/978-981-15-3453-9_8). (Citation - 2)

2019 (1)

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2020 (3)

1. Abhishek Nigam and **S. J. Pawar**, "Synthesis and Characterization of ZnO Nanoparticles to Optimize Drug Loading and Release Profile for Biomedical Applications", 10th International Conference on Material Processing and Characterization (ICMPC 2020), organized by Department of Mechanical Engineering, GLA University, Mathura, Uttar Pradesh, 21-23 February 2020. (Published in Materials Today: Proceedings (ISSN: 2214-7853), Vol. 26, Part 2, pp. 2625-2628, Feb. 2020, <https://doi.org/10.1016/j.matpr.2020.02.554>, **Scopus**). (Oral paper presentation) (Citation - 24)
2. Sandeep K. Vishwakarma and **S. J. Pawar**, "Simulation Studies on the Transition from Simple Expansion Chamber Muffler to Tapered Expansion Chamber Muffler", 2nd International Conference on Future Learning Aspects of Mechanical Engineering (FLAME - 2020), organized by Department of Mechanical Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida, 5-7 August 2020. (Oral paper presentation), Published as Springer book chapter (Lecture Notes in Mechanical Engineering, Advances in Fluid and Thermal Engineering, Select Proceedings of FLAME 2020, Editors: Basant Singh Sikarwar, Bengt Sundén, and Qiuwang Wang, pp. 389-398, Springer Nature Singapore Pte Ltd. 2021, ISSN 2195-4356 ISSN 2195-4364 (electronic), Lecture Notes in Mechanical Engineering, ISBN 978-981-16-0158-3, ISBN 978-981-16-0159-0 (eBook), <https://doi.org/10.1007/978-981-16-0159-0>). (Citation - 5)
3. Dhruv Singh and **S. J. Pawar**, "Computational Fluid Dynamics Simulation for the Prevention of Evapotranspiration from Agricultural Land using Semi-permeable Membrane", Techno Societal-2020, 3rd International Conference on Advanced Technologies for Societal Applications, SVERIs College Of Engineering Pandharpur, India, December 11-12, 2020, (Oral paper presentation) Paper ID 229, published as Springer Book (Techno-Societal 2020 Proceedings of the 3rd International Conference on Advanced Technologies for Societal Applications—Volume 2, Editors: Prashant M. Pawar, R. Balasubramaniam, Babruvahan P. Ronge, Santosh B. Salunkhe, Anup S. Vibhute, and Bhuwaneshwari Melinamath, Springer Nature Switzerland AG 2021, pp. 503-512, ISBN 978-3-030-69924-6 ISBN 978-3-030-69925-3 (eBook), <https://doi.org/10.1007/978-3-030-69925-3>).

2021 (1)

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2022 (2)

1. Tushar Rai and **Suryappa Jayappa Pawar**, "Preparation and Evaluation of Low-Cost Asbestos Free Brake Pad Material Using Mustard Husk Additives", International Conference on Innovations in Mechanical and

Materials Engineering (IMME 2022), MED, MNNITA, Prayagraj, 4-6 November, 2022, Submission 4614, (Oral paper presentation) (Rai T, Pawar S.J. 2023. Preparation and Evaluation of Low-Cost Asbestos Free Brake Pad Material using Mustard Husk Additives. NanoWorld J 9(S1): S544-S549.).

2. Yaminee and **S. J. Pawar**, "The Fruit-based Natural Dye: A Sensitizer for the Dye-Sensitized Solar Cell", 4th International Conference on Energy and Power (ICEP2022), 11-13 December 2022, Military Institute of Science & Technology | Dhaka, Bangladesh. (Online oral paper presentation).

National Conferences **Published (17)**

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1. **S. J. Pawar**, "Carbon Nanotube Synthesis Technique: A Brief Review", All India Seminar on "Advances in Product Development", M. N. N. I. T., Allahabad (UP) and Institute of Engineers (I) Allahabad Local Centre, 17-18Feb. 2006. (Oral presentation and publication)
2. R. P. Tewari, **S. J. Pawar**, S. K. Pandey, S. K. Dubey, "A Reliable Gait Phase Detection System using Artificial Neural Network", National Conference on "Biomedical Engineering", Sadar Patel Institute of Technology, Andheri, Mumbai (MS), 28-29March 2006. (Oral presentation and publication)
3. Patil B. A., and **Pawar S. J.**, "Parametric Surface Modeling Using Reverse Engineering", National conference on Advancement and Futuristic Trends in Mechanical and Material Engineering, Department of Mechanical Engineering, G. Z. S. College of Engineering and Technology, Bathinda (Pb), 13-14Oct. 2006. (Oral presentation and publication)
4. **S. J. Pawar**, and B. A. Patil, "Study of Micro-Electro Mechanical System (MEMS) Design Methodologies", National conference on Recent Developments and Future Trends in Mechanical Engineering (RDFTME-2006), NIT, Hamirpur (HP), 3-4Nov. 2006. (Oral presentation and publication)

2008 (4)

1. **S. J. Pawar**, "Carbon Nanotube: Revolutionary Material for Flat Panel Display", National Conference on Innovations in Science and Technology Towards Industrial Development (IST-ID2008), Rungta College of Engineering and Technology, Bilai (CG), 3-4Jan. 2008. (Publication)
2. **S. J. Pawar**, and Nagarjun, "Energy Considerations of Display Devices (CRT and Flat Panels) for Television Sets", National Conference on Renewable Energy Resources (RES-2008), Mechanical Engineering Department, BBS College of Engineering and Technology, Allahabad (UP), 19-20 Jan. 2008. (Oral presentation and publication)
3. Vipul Saxena and **S. J. Pawar**, "High Temperature Super Conducting Ceramic Magnets and its Effect on the Societal Development", National Conference on the Application of Material Science in the Service of the Society, Organized by Department of Chemistry, C. M. P. Degree College (University of Allahabad), Allahabad (UP), 5-6Feb. 2008. (Poster presentation)
4. Ravindra Singh and **S. J. Pawar**, "A Study of the Effect of Thermal Barrier Coating on Industrial Development", National Conference on the Application of Material Science in the Service of the Society, Organized by Department of Chemistry, C. M. P. Degree College (University of Allahabad), Allahabad (UP), 5-6Feb. 2008. (Poster presentation)

2011 (2)

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2. Hitendra Singh, Taslima Ahmed, and **S. J. Pawar**, "Modelling and Fabrication of Piezoelectric Transducer", National Conference on "Emerging Trends In Mechanical Engineering (ETME - 2011)", Department of Mechanical Engineering, IIMT college of Engineering, Greater Noida (UP), 7-8 April 2011. (Publication)

2013 (1)

1. Ajitanshu Vedrtnam, Gyanenda Singh, and **S. J. Pawar**, "Application of Taguchi Analysis for Variation for Properties of CBSX30 EH Thermal Film during Storage", National Conference on Frontiers in Mechanical Engineering, Mechanical Engineering Department, Maulana Azad National Institute of Technology, Bhopal (MP), 29-31Aug. 2013. (Publication)

2017 (2)

1. Kishor Kalauni and **S. J. Pawar**, "Utilization of Natural Bio-resources for Sound Absorption Material", 19th Indian Agricultural Scientists and Farmers' Congress on "Prospects of Green Economy and Value Addition Technology for Attracting and Retaining Youth in Agriculture and Rural Sector", 18-19 Feb. 2017, organized by Bioved Research Institute of Agriculture, Technology & Sciences, 103/42 M.L.N. Road (Near Prayag Station), Allahabad.
2. Shiv Kumar Ji Yadav, **S. J. Pawar**, and Ajaya Bharti, "Assessment of Waste Management of Sugarcane and Farm and Sugarcane Industry", 19th Indian Agricultural Scientists and Farmers' Congress on "Prospects of Green Economy and Value Addition Technology for Attracting and Retaining Youth in Agriculture and Rural Sector", 18-19 Feb. 2017, organized by Bioved Research Institute of Agriculture, Technology & Sciences, 103/42 M.L.N. Road (Near Prayag Station), Allahabad.

2018 (1)

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2023 (3)

1. **S. J. Pawar**, Je Ru Chen, and J. H. Huang, "Design and Equivalent Circuit Method Based Simulation of 3-D Printed Supra-aural Headphones for Accelerated Product Development", 50th National Symposium on Acoustics (NSA-2023), Emerging Trends In Acoustical Science, Design and Technology, Jointly organized by Veer Surendra Sai University of Technology, Sambalpur, Odisha, and Acoustical Society of India, 24-26 February 2023, (Oral presentation).
2. Kishor Kalauni and **S. J. Pawar**, "Acoustic Behaviour of Natural Fiber Reinforced Epoxy and Epoxy-Pine Composites", 50th National Symposium on Acoustics (NSA-2023), Emerging Trends In Acoustical Science, Design and Technology, Jointly organized by Veer Surendra Sai University of Technology, Sambalpur, Odisha, and Acoustical Society of India, 24-26 February 2023, (Oral presentation). (Published in Applied Innovative Research, Vol. 4, Issue 2-4, pp. 82-88, 2023, ISSN 2581-8198. (Citation - 2).
3. S. K. Vishwakarma and **S. J. Pawar**, "Optimization of the Position of the Outlet of Side Outlet Muffler using Genetic Algorithm", 50th National Symposium on Acoustics (NSA-2023), Emerging Trends In Acoustical Science, Design and Technology, Jointly organized by Veer Surendra Sai University of Technology, Sambalpur, Odisha, and Acoustical Society of India, 24-26 February 2023, (Oral presentation-**Best Poster Award**).