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| We are pleased to deliver your requested table of contents alert for **Welding in the World**. [Volume 69, Issue 4](https://links.springernature.com/f/a/8z7LLvveqG6CbrJtIv8QRg~~/AABE5hA~/BvPj7aODsCpIBtvQoRPxivmBNs5sGK1kuxmDQnCIyKLU6jmrqaUDItaJ4fyA8NrG1YvkeKt8k_4s8VPPuSUmKK4fSRzR9r_G3XH1AliStP7ygWg63ar0Tzrq-xJTo4y6KELEDyeVbq14VTcoACogvG8qEa8ZzsPunSKkZ2LBvI24pjhEsZJF2LYTJlLyFm6b8FPCm2MhOThK6YJYMv82LhBYKst0MSDeHuMCKSUYDVohVmENPPZ75tuO75EXUCRkTTRFpabt4QIL8XgTdXCBbA5xoum-Bo1YOfZF_2Pn7DG3M42uotqtNWs6qujN-N35) is now available online. |
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| [Research on the differences of mechanical properties between horizontal and vertical in al-cu alloy deposits fabricated by wire + arc additive manufacturing](https://links.springernature.com/f/a/Ch-DqNdKooC1TEQIRSy2jw~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-HCJFaaJokbNZR6LRlGq9PJMKOaXEeoXQVEPJaSXkKwRVYAYNe_2_T0FcOieK0zA5ciOxqwxDuGM60g9Tbs67v9plziONypE1xu077XrtMO4XZZBYPzybEngwdYviFtwG1p6nnf8pcyjpo5JJLseq8trSgpUf_FEH1qI6EEbR2BQxBHwCUjhAi62LFmtaVAL8bHaphqNz1AnLo61927caktNMC3GjM-17-8OWygUC9HS3tw2ucGVysWRoE3u5qDFKa77dqD1Sw6q8sDLKr0p4CA~~) |
| Shuai Wang, Lingling Ren, Lan Yang, Zhu Ming, Chengde Li, Wei Wang |

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| [Effect of plasma gas composition on deposition characteristics in plasma arc directed energy deposition of Ti-6Al-4 V](https://links.springernature.com/f/a/HtDNhS454aynYpViX9qhtw~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-HCJFaaJokbNZR6LRlGq9PAoiganQ1tPYfhZ9BJRpvk8aIUCXRZqagkecmi7PruH0yABnpCy5dtRLug4vNCaaFFY04OIS-7rgGj1TxEF1EkdODYtonN4P1Hp6udVO63fRc-tLGYEPXMDXfwr887x-7vkVv3V4oIA_-FrHMtehJiseJPMNgaym1CXxbHeaqyTViY7rThUEVgX9bawGBA25bTwdNtpW6OYBaYySPHRph0APzv4UR9LjAiiUffIQfTWsSsbLEqafVLK5PLkCmUfjBQ~~) |
| Yipeng Wang, Jialuo Ding, Stewart Williams, Baoqiang Cong |

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| [Hybrid heating in the fused filament fabrication process](https://links.springernature.com/f/a/Br9tNPVNtdexLhMIApsrzg~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-HCJFaaJokbNZR6LRlGq9PKWgTcONFGsbW97bdvt8IyWwd6Hkh1lht7oxYvqthpJHAMHZyLtBIQbhAqlSWz4vBVVliIpCHNW3JYJZy8MsvR950UuXY7G2-47v2RXuh_Kxq7PpoU9eKz-xeH4vkTRvwx9heXpTRVDxvPLFICkd2F82DgPN6iY8bIChQzmaCJ2RD-ePm7NucxfPZfXc5wtoNgs_-nJkUqeZV23PEYnp9x69gxFyFIWeqvqQbWyA6encsTpPCjARmwcvYnAJ84cspA~~) |
| Ionel Danut Savu, Sorin Vasile Savu, Nicusor-Alin Sirbu |

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| [Effect of microwave hybrid heating on high temperature dry sliding wear behavior of Al2O3 reinforced WC–Co HVOF coating](https://links.springernature.com/f/a/BEXyiSiGvWAT4AZDzgW0GA~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-HCJFaaJokbNZR6LRlGq9PI9O49dBggMyJdKsWE6ifX08gpuHtVcCL-wkbTTrY0NK9gHX5-yOfeLFNPVxTTZT3qsQqhuSntz6JKGMP2_qJofIWGV3uM5YxwbFK3AWjiiynC8gHvzJ4IWykBjK6ey9l2pH-BmStzxQ6z4IKTY3I4ZGHQ63xMTurP1B_MsZKg2Ci5cbtXBYePtbqfTMTk6ajht4fDq6oWZXqViZ59dab6WsmQ2dsn2Il23ncq6Yo946mK_EnzxGEehs-XeZwsFkvw~~) |
| Pradeep D. G., Nithin H. S., Sharath B. N., Madhu K. S. |

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| [A review on the impact of volumetric energy density on morphological and mechanical behavior in laser powder bed fusion steel alloys](https://links.springernature.com/f/a/0R_n3QUjkh3K4rfZp4DdPw~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-HCJFaaJokbNZR6LRlGq9PJ0-ykc86moVBkGmF2MMo7j6ZMc_vjgjH3aEPNRjUGsOtk1k_E-L_ENT7DEkUmJxsC6GxzB-xSIjTad5pRB6QeITl_g_jE9dvYbMKfGFaGcmv3SJ9e7JGMHqh3vO2NeysoL2FS2BYsfKCwExj3wm012OJYkoW5F8KCHfm5ajHjqt0vXIxEjsYCa2NywHFxC__E_9vszwHlqs_iJS4pVRDxB9S69tI_3TP-5LF-DqUd4uKENObnt2jjNaqwFM4U8bnQ~~) |
| Elango Venkatachalam, Devendiran Sundararajan |

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| [Effect of process parameters and orientation on the tensile and low cycle fatigue properties of low-carbon steel builds manufactured by directed energy deposition-gas metal arc process](https://links.springernature.com/f/a/NDDiVndQskV7Ogda8_pAcg~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-HCJFaaJokbNZR6LRlGq9PGtecVrg6yioCbNFTLYeI_nxtXYff3eSNo5bGC3y-_CAA0p_GkoDOA17pgI1tmRTO13C7H18mKOWtRIVDtUaazIckES04mM2vu3Y6v_rKXB9axKrBe_BygpuwbOraTbgG_vu4YoPmYt4QAGpaWQ1-SJvsGRE979zoANnXgviHYzG2UoYJp7DjTsu9pjj7ZvLWs8szRuHSJStMSBzsN2jXLor2O7k_ymWS6tVajJOPS9qPIwhADZ5PwQLRD09D4ffXQ~~) |
| Atanu Das, Abhishek Kumar, Sumanta Bagui, Chandra Veer Singh, Nimai Haldar, Sanjay Vajpai, Vikas Chandra Srivastava, Gopi Kishor Mandal |

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| [Surface flatness and height dimensional control of complex structural components with wire arc additive manufacturing](https://links.springernature.com/f/a/TIur2Rp3i7ip0C7EQMRvDg~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-HCJFaaJokbNZR6LRlGq9PG9rwf6Y2ZdKw24PlxHx6L_2gS42YQSLq-Tq-xb02sYFAbe1NHGd92recP6iuGXFZxlfrIxnz8w6eZrdTcI5oj6UtzcnCFCqKh4lWR8Ecb1F09lwceVSfqwp7nD1Ku3bx6odMp4l7vYw9xp2UYxEShvTQ2XBtrR6Q-vXFhjHn0OGajdx0LAvPezNs6HD9K8IGhRf2docMAOiGyUHPbty2Gu6aU9lb5ozW3CA-VFrdaDWpNlZoNAd1jbB8Lup0-Gt0A~~) |
| Jin Yang, Aimin Wang |

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| [Optimization of CMT-WAAM process parameters to minimize the porosity and surface roughness in bimetallic wall of aluminium alloys](https://links.springernature.com/f/a/M3z32Vp32PRsn7foV32a9g~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-HCJFaaJokbNZR6LRlGq9PD8u6mx27item5kyLSxwLkrgkizNCDZBReIVj7HlXR1Fy12z-yOID6CrPbsSXpq9LDaTAu2bnt_JOKH6OWczRv2RIZy1d64LD2pcQ4td8T0Mz0z4W27QNnOsJ0BpLRZRVLwmZL_WjxLe_NDP8fE6bz7aCu_LLBw5DpaD2t1JMXp7QldQqADEhtI5u_4-nzInxg3napI4Jaq7GPNmVULGeJEhS9786oZAxqj05TuboRFJeitOLki-wmtfTRcygfjUGA~~) |
| Soni Kesarwani, Narayana Yuvaraj |

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| [Welding of additively manufactured aluminium alloy components: challenges and mitigation strategies](https://links.springernature.com/f/a/z0pE1soSspapQxT_PTGzqw~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-8M5satY4MI2bOkUXiYNa-UcKEy8OCIBEjnnJ9tFxi-VVhZ5XTfLxSEmnxOUKTm2EqxJGhqjyL5ykhYXjBLAtWx7tANJTE6X9HBGS1riZ4-HFMZy9HBfZ6GxZVnZJq44kWdqaJQ2Ymbb87zNeNOW_ke48EdciksIh3Dzn4xyiIJQratPFgwYMHMKyMXtosCeFJKi7ss5I1yNsnN1oLX-m0DzCWoR5rMJI4F8-ZZ6idsSSHk5aa2bEEff0y3DShOOXPQsb-tnya-OytcUV5izk9w~~) |
| Rafael Nunes, Koen Faes, Wim Verlinde, Florian Probst, Jens De Freese, Julius Arnhold, Wim De Waele, Matthieu Lezaack, Aude Simar |

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| [Multi-component and multi-phase-field modelling of solidification microstructural evolution in Inconel 625 alloy during laser powder bed fusion additive manufacturing](https://links.springernature.com/f/a/pv4_PRf_tNucueT2ebtniw~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-8M5satY4MI2bOkUXiYNa-dmEcQsc4-zW1EfVi6RuK-ubxhovHxEFdqnrPN-zF0vmJ4A_xErwZ1itfN3lTEJnS4iJGthFToN_ct2iubghrcsTriesNIKcYjSKEYWFCeR06Xw05Ydlyim-e0BkEmLSaKccFVs_5VHxvsSNKVnFQMZsVxa-M5jqv37dutUEB9aRo_eShwFhTy8qRya5zgMzGk-IfBGnHTuTGh7Bj4VwGwK6TefxzceXgEmYCzOjoAPE6WyB6Pqu0Yepury9fyjUwQ~~) |
| Soma Maji, Murugaiyan Amirthalingam |

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| [Transverse varestraint weldability testing in laser powder bed fusion 316L stainless steel](https://links.springernature.com/f/a/E1lupJo3NPLaZNXB6Ka5Lw~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-8M5satY4MI2bOkUXiYNa-VjPts5ZwUc8tKDrV0vm5Lc2K0k0jOPdcZj8utqltqNO2FsQ_94S-0G8HQ_ISSXxWq0341-zbODdCuvfCUoeeuk4a4h5bfPGNwdh8zuX2Kd0S9-tj6hSIISoLO6g5TMISbl0aYcVQdZB0Haw3CU-ddiLnNBP-8c2fHBuKdstRUcM3ZMYF_Qycre9bh0yQt9twdeCIKrziLuX_BTbEB5yZxHANrNjc3VOyX3IrvyU0JkvnXKj0C2fe-mY9kYb_gaacw~~) |
| Jhoan Guzman, Kaue C. Riffel, Jacque W. Berkson, Samuel Casto, Antonio J. Ramirez |

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| [Influence of process parameters on residual stress in laser metal deposition of nickel-based superalloy](https://links.springernature.com/f/a/sVGa-Y5YlAQjazY3Uzcwyw~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-8M5satY4MI2bOkUXiYNa-bq4gAqbKcbIdqXtqi90i9pCjk9U6Zjz1MStNIK8OGsNIv09wczEBX6nHEzArm5wuovAXOi9FNM70HD2HwSyRnzj2Y12I6-R7UOdCVqmmHCXSmTsplC9LoK7FvkwqViSywQhhbJ9BisnXZgBJjm0Fw6pcRCRv9k_VvxVGkWrWZlzHlhcf3xF04-5XG9fnrWgoL9mk6j_Dg-81g_ZqZVIaUlyXW1ugL9xQIN8UAW-BR4Ox3SE1tmH4Gxo0Z9Qec08cg~~) |
| Maohong Yang, Guiyi Wu, Xiangwei Li, Ruiyao Zhang, Shuyan Zhang, Honghong Wang, Illiashenko Yevhenii |

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| [Effects of process parameters on the crystallographic orientation and elemental segregation behavior of a novel Ni-based superalloy in laser additive manufacturing](https://links.springernature.com/f/a/4gHuNO3WM33hqVPYQlXJ9A~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-8M5satY4MI2bOkUXiYNa-eWS7NtGx8YrX6ayATYScbxuPHA2TsXriAdi5SLCSSCI80_U-vLxBous6ftytEaXttn9gATSfl5NWpTblO9-T1gh68Ik8c3nC6nlu55r-JzqlDeuWL_V7l2zEG5M18XFuDhWND19Pl16nKxdnRa39aiad7obBfhHdFBMfpL6RNfM0ILAQyLM2x0Nem_rlgvDxlmX3tYalIcMF7WN44-OqE7q3R0BpO88LkMGOcEfkeSyLsjKRXsvAY-U9PMH7YMldA~~) |
| Lei Yao, Lianqi Shang, Shaofeng Chen, Liang Cao, Jingjing Liang |

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| [Surface structure analysis using visual high-resolution in situ process monitoring in laser powder bed fusion](https://links.springernature.com/f/a/skQwxUMsOPdE_FFcfWrYow~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-8M5satY4MI2bOkUXiYNa-dRoHJsViqnGhnwOzOpVxSc333pHxIhHSXI2UtSfyizlYxZ79oXefRSfin4_Txh85_xmvGVEhLNFG9gy5ozJBtmivSu6JldoiLVRO9Zp3WJM9svDygEnpnjEFZLNceRc17laDG3K9Yy6AjmyCjtwu8YzWpbJM0JisneXhyrIJDkHmWytmWr7p7IfBN-lbWGlFNLm7kn9iCMps9aKbFfn-yDfndauMXm4lhdSHl0oVJlAEDCCpjVjdZYGDPRRQcAVqw~~) |
| Jonathan Schmidt, Benjamin Merz, Konstantin Poka, Gunther Mohr, Kai Hilgenberg |

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| [Effect of heat treatment parameters on SLM-fabricated GNPs/IN718 composites: microstructural evolution and mechanical properties](https://links.springernature.com/f/a/MoTaDtkEOcqZWXtdj9L3cg~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-8M5satY4MI2bOkUXiYNa-SG-_tgxyvDbhHaiDu8FCvVrf0qfUo9M9NEEFlhrwHi1z_ks7mLiEBXkEZZW8lwLNXtct8NUSPA3EwyiMa2bobNlz7Iw957B1RiH_H9yDyvhh_rLJCpSrZC7OBEhIs7YsyyGJYpLdImUsjU1eQinkKPhua0swHPI7_DZuj9GJQUAjRR1rlJfBDVJqlvFrfjRwPKPEtUzSMSHRNFH87zaveqO6sqk77FXS6Xie3TSZco3C5ao7PNyZlYHFFvtamnFEA~~) |
| Yang Chu, Haichuan Shi, Peilei Zhang, Boyu Wang, Zhishui Yu, Hua Yan, Qinghua Lu, Kaichang Yu, Zhaolong Li, Yu Lei |

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| [Effect of surface roughness on rotating fatigue strength of as-built AlSi10Mg produced by laser powder bed fusion](https://links.springernature.com/f/a/_D84Aqu3wd553RAM-_K58Q~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-8M5satY4MI2bOkUXiYNa-boE4bxIp02aNnhxRMNeUtYew4Aup9ASmSQSJ04y6fSq_yQkpqZ3UfivEF9AuM5EhqebMgu6A23D0cpvs7Eo705i7SqR6qOm_gCLS3-GHhv9Va8qfEcGuanJlRQ_thlZLJLQIS1TtO3fWGBsK7WQnysQ4hZJZnuyUfOQ4d7v6gRKFAQhLcKQSjfQ5qjy9qIky1kEQZtUbXMeNb069hdSKNnT5q1mXM2JlTNMz4qV8DwTpONg7TpyNg9J1nLGxdj7Ew~~) |
| Andrea El Hassanin, Umberto Prisco |

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| [Multiscale FE modeling of SLMed ASS316 L reinforced with nanoparticles during FSP: exploring the impact of particle volume fraction, shape, and type on mechanical strength](https://links.springernature.com/f/a/JXMEGfUx-BTshE7kLKRNDw~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-8M5satY4MI2bOkUXiYNa-TedlADLFWjzXhnc5Ygr5f0OxFfT4q4_GGkcBgLoz43aeynudgn4Yu6PmU7bOwut0ws9CgVIYlvSg9te_aYtEU3Me6gqW3J6ziajIM3yk29xxPpUW9ucWEdgMNa9HcjGWkLyg7y5P3MJyVJx1khi8vxf3kYMWYJTB00leAQPODGAPfumvYcwFTusymKjHe26MnaHf5FqMFjoMPqak-WzKXlK91v3-oGHMlEOlSyFVHBKxKDIz7m59kQ946ZjYpUC7g~~) |
| Ali Ebrahimpour, Morteza Omidi, Amir Mostafapour |

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| [Investigation on the effectivity of nanoparticle elimination of a fume extractor TIG torch](https://links.springernature.com/f/a/Ww9Fbo2H2mONUK4-ELIJIQ~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-HCJFaaJokbNZR6LRlGq9PLN3JE7cgLpWtyFUDlpRDhWF_3NefgnSxVpjdcF8DsllNOO6xoTLEk5a_9bMlXgvWA_zjgDi__ZbbSwKy-331U1jGGrp0j0nH9fdbAvY8YZncpjXQjNBWqyA0Lm-KBi7NSkAr2SRACvz7px6QMvBNpjkubzPklNV0WeOakS8kWAYiwhovkbpFcAc9KI37s_NZcOcO6t6qW8E2Sh6nba18kZLh1aqL79THfwW5c8Jup6V0DESi_AeRYScZPbRmL-0FQ~~) |
| Csaba Kővágó, Kornél Májlinger, Éva Szűcs-Somlyó, József Lehel |

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| [Determination of EMF exposure in arc welding by introducing improved numerical anatomic body simulation](https://links.springernature.com/f/a/b4gBbQiIEXRLdESaUV9TxA~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-HCJFaaJokbNZR6LRlGq9PCchtRwm7y6T1PskmxSaLR1EK_pZKWcj8G-ik6KtKPmhTKer0uSq2Bj4MJdAM5Eq7B3oaeDoygmUu9NCMfZ9xwtPyobRN6Bv3letP50i_-Qi8Od5FZOGe34HcHg3rJxTwU5iGPerEYYOl2RUZw0wnhuekQwnjDMbvBd7yCrzB81gQyHXoz3CznTCpmyqqE2xZt_V64hXIKgw0vn3Rh7TwOaMOX7aVdValvGfmE3seh1nv6GckbJcFdZeg8xVaRaOrA~~) |
| Stephan A. Egerland, Benjamin Schranz, Harald Langeder |

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| [Investigating the effect of varying powder size range on particulate matter emission and mechanical properties of in situ micropowder alloyed WAAM depositions](https://links.springernature.com/f/a/YfWh9_wuxg3iobtv5qW5nw~~/AABE5hA~/2xVgpolAsEwKiIkerFzJYl0XUD0MszBApUOeAWb_fEL-6hQzTGFRXe2n-TcUxXb-HCJFaaJokbNZR6LRlGq9PMrLQxluoU3GaQAEI2hsR531nD65Huz8_YGKga9sOZ1YMdu4Aj9Y7yWq8nFDMzlOn9Jw2bbQJMwGfU6amoC8RIDJKdiTdmpxY3YUU3tjOcURZAOnd7zAD1vIwNqvF0FsTsAden_iZEEqDnOx6folJbf1xl_IZKJWfT1jo81dPFZew2zZ_EWJyB-Zzucr6kDLpTM3GZFuoBHk9LaCe5Qv9Ov8IJwwpmbCvglmyvwWdBF0HRFDSFt1ENMu6OK__KmyYg~~) |
| Adarsh Prakash, Rubal Dhiman, Anirudha Ambekar, Thaseem Thajudeen, Sachin Dnyandeo Kore |

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