Table S1. Summary of the selected articles alphabetised by author.

Index	Authors	Title	Publication Year
A1	Aboutalebi M., Torres-Rua A.F., Kustas W.P., Nieto H., Coopmans C., McKee M.	Assessment of Different Methods for Shadow Detection in High-Resolution Optical Imagery and Evaluation of Shadow Impact on Calculation of NDVI, and Evapotranspiration	2019
A2	Aboutalebi M., Torres-Rua A.F., McKee M., Kustas W., Nieto H., Coopmans C.	Behavior of Vegetation/Soil Indices in Shaded and Sunlit Pixels and Evaluation of Different Shadow Compensation Methods Using UAV High-Resolution Imagery Over Vineyards	2018
A3	Aboutalebi M., Torres-Rua A.F., McKee M., Kustas W., Nieto H., Coopmans C.	Validation of Digital Surface Models (Dsms) Retrieved From Unmanned Aerial Vehicle (UAV) Point Clouds Using Geometrical Information From Shadows	2019
A4	Aboutalebi M., Torres-Rua A.F., McKee M., Kustas W.P., Nieto H., Alsina M.M., White A., Prueger J.H., McKee L., Alfieri J., Hipps L., Coopmans C., Dokoozlian N.	Incorporation of Unmanned Aerial Vehicle (UAV) Point Cloud Products Into Remote Sensing Evapotranspiration Models	2020
A5	Aboutalebi M., Torres-Rua A.F., McKee M., Nieto H., Kustas W., Coopmans C.	The Impact of Shadows on Partitioning of Radiometric Temperature to Canopy and Soil Temperature Based on the Contextual Two-Source Energy Balance Model (TSEB-2T)	2019
A6	Abubakar M.A., Chanzy A., Flamain F., Pouget G., Courault D.	Delineation of Orchard, Vineyard, and Olive Trees Based on Phenology Metrics Derived From Time Series of Sentinel-2	2023
A7	Albetis J., Duthoit S., Guttler F., Jacquin A., Goulard M., Poilvé H., Féret J.-B., Dedieu G.	Detection of Flavescence Dorée Grapevine Disease Using Unmanned Aerial Vehicle (UAV) Multispectral Imagery	2017
A8	Albetis J., Jacquin A., Goulard M., Poilvé H., Rousseau J., Clenet H., Dedieu G., Duthoit S.	On the Potentiality of UAV Multispectral Imagery to Detect Flavescence Dorée and Grapevine Trunk Diseases	2019
A9	Alfieri J.G., Kustas W.P., Nieto H., Prueger J.H., Hipps L.E., McKee L.G., Gao F., Los S.	Influence of Wind Direction on the Surface Roughness of Vineyards	2019
A10	Alfieri J.G., Kustas W.P., Prueger J.H., McKee L.G., Hipps L.E., Gao F.	A Multi-Year Intercomparison of Micrometeorological Observations At Adjacent Vineyards in California's Central Valley During GRAPEX	2019
A11	Alkassem M., Buis S., Coulouma G., Jacob F., Lagacherie P., Prévot L.	Estimating Soil Available Water Capacity Within a Mediterranean Vineyard Watershed Using Satellite Imagery and Crop Model Inversion	2022

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A12	Alonso-Arroyo A., Camps A., Sanchez N., Pablos M., Gonzalez-Zamora A., Martinez-Fernandez J., Vall-Llosera M., Pascual D.	An Airborne GNSS-R Field Experiment Over a Vineyard for Soil Moisture Estimation and Monitoring	2015
A13	Al-Saddik H., Laybros A., Billiot B., Cointault F.	Using Image Texture and Spectral Reflectance Analysis to Detect Yellowness and Esca in Grapevines At Leaf-Level	2018
A14	Anastasiou E., Balafoutis A., Darra N., Psiroukis V., Biniari A., Xanthopoulos G., Fountas S.	Satellite and Proximal Sensing to Estimate the Yield and Quality of Table Grapes	2018
A15	Anderson G., Van Aardt J., Bajorski P., Vanden Heuvel J.	Detection of Wine Grape Nutrient Levels Using Visible and Near Infrared 1nm Spectral Resolution Remote Sensing	2016
A16	Arab S.T., Ahamed T.	Near-Real-Time Drought Monitoring and Assessment for Vineyard Production on a Regional Scale With Standard Precipitation and Vegetation Indices Using Landsat and CHIRPS Datasets	2023
A17	Arab S.T., Ahamed T.	Land Suitability Analysis for Potential Vineyards Extension in Afghanistan At Regional Scale Using Remote Sensing Datasets	2022
A18	Arab S.T., Noguchi R., Ahamed T.	Yield Loss Assessment of Grapes Using Composite Drought Index Derived From Landsat OLI and TIRS Datasets	2022
A19	Arab S.T., Noguchi R., Matsushita S., Ahamed T.	Prediction of Grape Yields From Time-Series Vegetation Indices Using Satellite Remote Sensing and a Machine-Learning Approach	2021
A20	Aubrun M., Troya-Galvis A., Albughdadi M., Hugues R., Spigai M.	Unsupervised Learning of Robust Representations for Change Detection on Sentinel-2 Earth Observation Images	2020
A21	Awada H., Di Prima S., Sirca C., Giadrossich F., Marras S., Spano D., Pirastru M.	A Remote Sensing and Modeling Integrated Approach for Constructing Continuous Time Series of Daily Actual Evapotranspiration	2022
A22	Badeka E., Vrochidou E., Tziridis K., Nicolaou A., Papakostas G.A., Pachidis T., Kaburlasos V.G.	Navigation Route Mapping for Harvesting Robots in Vineyards Using UAV-Based Remote Sensing	2020
A23	Badr G., Hoogenboom G., Davenport J., Smithyman J.	Estimating Growing Season Length Using Vegetation Indices Based on Remote Sensing: A Case Study for Vineyards in Washington State	2015
A24	Bahat I., Netzer Y., Grünzweig J.M., Alchanatis V., Peeters A., Goldshtein E., Ohana-Levi N., Ben-Gal A., Cohen Y.	In-Season Interactions Between Vine Vigor, Water Status and Wine Quality in Terrain-Based Management-Zones in a 'Cabernet Sauvignon' Vineyard	2021

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A25	Bai H., Sun Z., Yao X., Kong J., Wang Y., Zhang X., Chen W., Fan P., Li S., Liang Z., Dai Z.	Viticultural Suitability Analysis Based on Multi-Source Data Highlights Climate-Change-Induced Decrease in Potential Suitable Areas: A Case Analysis in Ningxia, China	2022
A26	Baiamonte G., Minacapilli M., Novara A., Gristina L.	Time Scale Effects and Interactions of Rainfall Erosivity and Cover Management Factors on Vineyard Soil Loss Erosion in the Semi-Arid Area of Southern Sicily	2019
A27	Balbontín C., Campos I., Odi-Lara M., Ibacache A., Calera A.	Irrigation Performance Assessment in Table Grape Using the Reflectance-Based Crop Coefficient	2017
A28	Ballesteros R., Intrigliolo D.S., Ortega J.F., Ramírez-Cuesta J.M., Buesa I., Moreno M.A.	Vineyard Yield Estimation by Combining Remote Sensing, Computer Vision and Artificial Neural Network Techniques	2020
A29	Ballesteros R., Ortega J.F., Hernández D., Moreno M.	Characterization of Vitis Vinifera L. Canopy Using Unmanned Aerial Vehicle-Based Remote Sensing and Photogrammetry Techniques	2015
A30	Bambach N., Kustas W., Alfieri J., Gao F., Prueger J., Hipps L., McKee L., Castro S.J., Alsina M.M., McElrone A.J.	Inter-Annual Variability of Land Surface Fluxes Across Vineyards: The Role of Climate, Phenology, and Irrigation Management	2022
A31	Barjaktarovic M., Faralli M., Bertamini M., Bruzzone L., Santoni M.	A Multispectral Acquisition System for Potential Detection of Flavescence Dorée	2022
A32	Barjaktarovic M., Santoni M., Faralli M., Bertamini M., Bruzzone L.	Potential Detection of Flavescence Dorée in the Vineyard Using Close-Range Hyperspectral Imaging	2023
A33	Barriguinha A., Jardim B., de Castro Neto M., Gil A.	Using NDVI, Climate Data and Machine Learning to Estimate Yield in the Douro Wine Region	2022
A34	Barrile V., Simonetti S., Citroni R., Fotia A., Bilotta G.	Experimenting Agriculture 4.0 With Sensors: A Data Fusion Approach Between Remote Sensing, UAVs and Self-Driving Tractors	2022
A35	Beeri O., Netzer Y., Munitz S., Mintz D.F., Pelta R., Shilo T., Horesh A., Mey-tal S.	Kc and Lai Estimations Using Optical and Sar Remote Sensing Imagery for Vineyards Plots	2020
A36	Bellvert J., Jofre-Ĉekalović C., Pelechá A., Mata M., Nieto H.	Feasibility of Using the Two-Source Energy Balance Model (TSEB) With Sentinel-2 and Sentinel-3 Images to Analyze the Spatio-Temporal Variability of Vine Water Status in a Vineyard	2020
A37	Bellvert J., Mata M., Vallverdú X., Paris C., Marsal J.	Optimizing Precision Irrigation of a Vineyard to Improve Water Use Efficiency and Profitability by Using a Decision-Oriented Vine Water Consumption Model	2020

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A38	Bellvert J., Jofre C., Pelechá A., Mata M., Nieto H.	Estimation of the Spatial and Temporal Variability of Evapotranspiration Components in a Vineyard With the Two Source Energy Balance Model (TSEB) Using Both Thermal Airborne and the Fusion of Sentinel 2 and 3 Imagery	2022
A39	Bellvert J., Pelechá A., Pamies-Sans M., Virgili J., Torres M., Casadesús J.	Assimilation of Sentinel-2 Biophysical Variables Into a Digital Twin for the Automated Irrigation Scheduling of a Vineyard	2023
A40	Benelli A., Fabbri A.	Vis/NIR Hyperspectral Imaging Technology in Predicting the Quality Properties of Three Fruit Cultivars During Production and Storage	2020
A41	Beniaouf S., Mabillard R., Gressin A.	Toward a Low-Cost, Multispectral, High Accuracy Mapping System for Vineyard Inspection	2022
A42	Bhattarai N., D'Urso G., Kustas W.P., Bambach-Ortiz N., Anderson M., McElrone A.J., Knipper K.R., Gao F., Alsina M.M., Aboutalebi M., Mckee L., Alfieri J.G., Prueger J.H., Belfiore O.R.	Influence of Modeling Domain and Meteorological Forcing Data on Daily Evapotranspiration Estimates From a Shuttleworth–Wallace Model Using Sentinel-2 Surface Reflectance Data	2022
A43	Bianchi D., Modina D., Cavallaro L., Spadaccini R., Carnevali P., Brancadoro L.	Vineyard Water Stress Evaluation Using a Multispectral Index: A Case Study in the Chianti Area	2021
A44	Biglia A., Zaman S., Gay P., Ricauda Aimonino D., Comba L.	3D Point Cloud Density-Based Segmentation for Vine Rows Detection and Localisation	2022
A45	Bonilla I., De Toda F.M., Martínez-Casasnovas J.A.	Vine Vigor, Yield and Grape Quality Assessment by Airborne Remote Sensing Over Three Years: Analysis of Unexpected Relationships in Cv. Tempranillo	2015
A46	Bonilla I., Martínez De Toda F., Martínez-Casasnovas J.A.	Vineyard Zonal Management for Grape Quality Assessment by Combining Airborne Remote Sensed Imagery and Soil Sensors	2014
A47	Borgogno Mondino E., Gajetti M.	Preliminary Considerations About Costs and Potential Market of Remote Sensing From UAV in the Italian Viticulture Context	2017
A48	Borgogno-Mondino E., Lessio A.	A FFT-Based Approach to Explore Periodicity of Vines/Soil Properties in Vineyard From Time Series of Satellite-Derived Spectral Indices	2018
A49	Borgogno-Mondino E., Novello V., de Palma L.	Testing the Possibility of Mapping Vineyards Covered With Plastic Sheets by Copernicus Sentinel 2 Imagery	2021
A50	Botelho M., Cruz A., Mourato C., Castelo-Branco J., Ricardo-Da-Silva J., Castro R., Ribeiro H., Braga R.	Variable-Rate Mechanical Pruning: A New Way to Prune Vines	2021

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A51	Bourgeon M.-A., Paoli J.-N., Jones G., Villette S., Gée C.	Field Radiometric Calibration of a Multispectral On-The-Go Sensor Dedicated to the Characterization of Vineyard Foliage	2016
A52	Bourgeon M.A., Paoli J.N., Villette S., Debuisson S., Morlet M., Jones G., Gee C.	'On-The-Go' Multispectral Imaging System to Characterize the Development of Vineyard Foliage	2015
A53	Bramley R.G.V., Ouzman J., Trought M.C.T., Neal S.M., Bennett J.S.	Spatio-Temporal Variability in Vine Vigour and Yield in a Marlborough Sauvignon Blanc Vineyard	2019
A54	Bretreger D., Quijano J., Awad J.	Monitoring Irrigation Volumes Using Climate Data and Remote Sensing Observations	2018
A55	Bretreger D., Warner A., Yeo I.-Y.	Comparing Remote Sensing and Tabulated Crop Coefficients to Assess Irrigation Water Use	2019
A56	Bretreger D., Yeo I.-Y.	The Effects of SILO & AWRA Wind Speeds on Irrigation Depth Simulations	2019
A57	Bretreger D., Yeo I.-Y., Quijano J., Awad J., Hancock G., Willgoose G.	Monitoring Irrigation Water Use Over Paddock Scales Using Climate Data and Landsat Observations	2019
A58	Bretreger D., Yeo I.-Y., Hancock G.	Quantifying Irrigation Water Use With Remote Sensing: Soil Water Deficit Modelling With Uncertain Soil Parameters	2022
A59	Brunori E., Maesano M., Moresi F.V., Antolini A., Bellincontro A., Forniti R., Biasi R., Mencarelli F.	Using UAV-Based Remote Sensing to Assess Grapevine Canopy Damage Due to Fire Smoke	2020
A60	Brunori E., Moresi F.V., Maesano M., De Horatis M., Salvati R., Mugnozza G.S., Biasi R.	Field Survey and UAV Remote Sensing As Tools for Evaluating the Canopy Management Effects in Smallholder Grapevine Farm	2022
A61	Brusco D., Belcore E., Piras M.	Popillia Japonica Newman Detection Through Remote Sensing and AI Computer Vision	2023
A62	Burgos S., Mota M., Noll D., Cannelle B.	Use of Very High-Resolution Airborne Images to Analyse 3D Canopy Architecture of a Vineyard	2015
A63	Caiserman A., Dumas D., Bennafla K., Faour G., Amiraslani F.	Application of Remotely Sensed Imagery Andsocioeconomic Surveys to Map Crop Choices in the Bekaa Valley (Lebanon)	2019
A64	Calleja J.F., Hellmann C., Mendiguren G., Punalekar S., Peón J., Macarthur A., Alonso L.	Relating Hyperspectral Airborne Data to Ground Measurements in a Complex and Discontinuous Canopy	2015
A65	Campos J., Llop J., Gallart M., García-Ruiz F., Gras A., Salcedo R., Gil E.	Development of Canopy Vigour Maps Using UAV for Site-Specific Management During Vineyard Spraying Process	2019

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A66	Campos J., García-Ruíz F., Gil E.	Assessment of Vineyard Canopy Characteristics From Vigour Maps Obtained Using UAV and Satellite Imagery	2021
A67	Candiago S., Remondino F., De Giglio M., Dubbini M., Gattelli M.	Evaluating Multispectral Images and Vegetation Indices for Precision Farming Applications From UAV Images	2015
A68	Carrasco-Benavides M., Ortega-Farías S., Gil P.M., Knopp D., Morales-Salinas L., Lagos L.O., de la Fuente D., López-Olivari R., Fuentes S.	Assessment of the Vineyard Water Footprint by Using Ancillary Data and Eeflux Satellite Images. Examples in the Chilean Central Zone	2022
A69	Carrillo E., Matese A., Rousseau J., Tisseyre B.	Use of Multi-Spectral Airborne Imagery to Improve Yield Sampling in Viticulture	2016
A70	Caruso G., Tozzini L., Rallo G., Primicerio J., Moriondo M., Palai G., Gucci R.	Estimating Biophysical and Geometrical Parameters of Grapevine Canopies ('Sangiovese') by An Unmanned Aerial Vehicle (UAV) and VIS-NIR Cameras	2017
A71	Castrillo D., Blanco P., Vélez S.	Can Satellite Remote Sensing Assist in the Characterization of Yeasts Related to Biogeographical Origin?	2023
A72	Catania P., Ferro M.V., Roma E., Orlando S., Vallone M.	Assessment of Vine and Cover Crop Vegetation Indices Using High-Resolution Images Acquired by UAV Platform	2023
A73	Chabrillat S., Schmid T., Milewski R., Escribano P., Garcia M., Bendor E., Guillaso S., Pelayo M., Reyes A., Sobejano-Paz V., Michavila M.J.	Mapping Crop Variability Related to Soil Quality and Crop Stress Within Rainfed Mediterranean Agroecosystems Using Hyperspectral Data	2018
A74	Chancia R., Bates T., Heuvel J.V., van Aardt J.	Assessing Grapevine Nutrient Status From Unmanned Aerial System (UAS) Hyperspectral Imagery	2021
A75	Chandel A.K., Khot L.R., Molaei B., Peters R.T., Stöckle C.O., Jacoby P.W.	High-Resolution Spatiotemporal Water Use Mapping of Surface and Direct-Root-Zone Drip-Irrigated Grapevines Using Uas-Based Thermal and Multispectral Remote Sensing	2021
A76	Chrobak K., Chrobak G., Kazak J.K.	The Use of Common Knowledge in Fuzzy Logic Approach for Vineyard Site Selection	2020
A77	Cinat P., Di Gennaro S.F., Berton A., Matese A.	Comparison of Unsupervised Algorithms for Vineyard Canopy Segmentation From UAV Multispectral Images	2019
A78	Cogato A., Meggio F., Collins C., Marinello F.	Medium-Resolution Multispectral Data From Sentinel-2 to Assess the Damage and the Recovery Time of Late Frost on Vineyards	2020
A79	Cogato A., Pagay V., Marinello F., Meggio F., Grace P., Migliorati M.D.A.	Assessing the Feasibility of Using Sentinel-2 Imagery to Quantify the Impact of Heatwaves on Irrigated Vineyards	2019

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A81	Comba L., Biglia A., Aimonino D.R., Barge P., Tortia C., Gay P.	2D and 3D Data Fusion for Crop Monitoring in Precision Agriculture	2019
A82	Comba L., Biglia A., Ricauda Aimonino D., Gay P.	Unsupervised Detection of Vineyards by 3D Point-Cloud UAV Photogrammetry for Precision Agriculture	2018
A83	Comba L., Biglia A., Ricauda Aimonino D., Tortia C., Mania E., Guidoni S., Gay P.	Leaf Area Index Evaluation in Vineyards Using 3D Point Clouds From UAV Imagery	2020
A84	Comba L., Gay P., Primicerio J., Ricauda Aimonino D.	Vineyard Detection From Unmanned Aerial Systems Images	2015
A85	Comba L., Zaman S., Biglia A., Davide Ricauda A., Dabbene F., Gay P.	Semantic Interpretation and Complexity Reduction of 3D Point Clouds of Vineyards	2020
A86	Comparetti A., da Silva J.R.M.	Use of Sentinel-2 Satellite for Spatially Variable Rate Fertiliser Management in a Sicilian Vineyard	2022
A87	Costa L., Nunes L., Ampatzidis Y.	A New Visible Band Index (VNDVI) for Estimating NDVI Values on RGB Images Utilizing Genetic Algorithms	2020
A88	D'urso G., Bolognesi S.F., Kustas W.P., Knipper K.R., Anderson M.C., Alsina M.M., Hain C.R., Alfieri J.G., Prueger J.H., Gao F., McKee L.G., De Michele C., McElrone A.J., Bambach N., Sanchez L., Belfiore O.R.	Determining Evapotranspiration by Using Combination Equation Models With Sentinel-2 Data and Comparison With Thermal-Based Energy Balance in a California Irrigated Vineyard	2021
A89	Damiano N., Bonfante A., Cirillo C., Amitrano C., Erbaggio A., Brook A., De Micco V.	Retrospective Reconstruction of the Ecophysiological Grapevine Behaviour Through the Analysis of Tree-Ring Series to Validate An Approach to Extract Data From Space-Born and UAV Techniques	2019
A90	Darra N., Psomiadis E., Kasimati A., Anastasiou A., Anastasiou E., Fountas S.	Remote and Proximal Sensing-Derived Spectral Indices and Biophysical Variables for Spatial Variation Determination in Vineyards	2021
A91	De C. Teixeira A.H., Lopes H.L., Hernandez F.B.T.	Up Scaling Table Grape Water Requirements in the Low-Middle São Francisco River Basin, Brazil	2014

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A93	de Castro A.I., Six J., Plant R.E., Peña J.M.	Mapping Crop Calendar Events and Phenology-Related Metrics At the Parcel Level by Object-Based Image Analysis (OBIA) of MODIS-NDVI Time-Series: A Case Study in Central California	2018
A94	Del Frate F., Latini D., Picchiani M., Schiavon G., Vittucci C.	A Neural Network Architecture Combining VHR SAR and Multispectral Data for Precision Farming in Viticulture	2014
A95	Déprez A., Puissant A., Jean P., Michéa D.	Imclass-A User-Tailored Machine Learning Image Classification Chain for Change Detection Or Landcover Mapping	2020
A96	di Gennaro S.F., Battiston E., di Marco S., Facini O., Matese A., Nocentini M., Palliotti A., Mugnai L.	Unmanned Aerial Vehicle (UAV)-Based Remote Sensing to Monitor Grapevine Leaf Stripe Disease Within a Vineyard Affected by Esca Complex	2016
A97	Di Gennaro S.F., Dainelli R., Palliotti A., Toscano P., Matese A.	Sentinel-2 Validation for Spatial Variability Assessment in Overhead Trellis System Viticulture Versus UAV and Agronomic Data	2019
A98	Di Gennaro S.F., Matese A., Gioli B., Toscano P., Zaldei A., Palliotti A., Genesio L.	Multisensor Approach to Assess Vineyard Thermal Dynamics Combining High-Resolution Unmanned Aerial Vehicle (UAV) Remote Sensing and Wireless Sensor Network (WSN) Proximal Sensing	2017
A99	Di Gennaro S.F., Toscano P., Gatti M., Poni S., Berton A., Matese A.	Spectral Comparison of UAV-Based Hyper and Multispectral Cameras for Precision Viticulture	2022
A100	Di Gennaro S.F., Vannini G.L., Berton A., Dainelli R., Toscano P., Matese A.	Missing Plant Detection in Vineyards Using UAV Angled RGB Imagery Acquired in Dormant Period	2023
A101	Diago M.P., Bellincontro A., Scheidweiler M., Tardaguila J., Tittmann S., Stoll M.	Future Opportunities of Proximal Near Infrared Spectroscopy Approaches to Determine the Variability of Vineyard Water Status	2017
A102	Dold C., Heitman J., Giese G., Howard A., Havlin J., Sauer T.	Upscaling Evapotranspiration With Parsimonious Models in a North Carolina Vineyard	2019
A103	Donati C., Mammarella M., Comba L., Biglia A., Gay P., Dabbene F.	3D Distance Filter for the Autonomous Navigation of UAVs in Agricultural Scenarios	2022
A104	Dorin B., Reynolds A.G., Jollineau M., Lee H.-S., Shemrock A.	Utilization of Unmanned Aerial Vehicles for Zonal Winemaking in Cool-Climate Riesling Vineyards	2022

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A106	Ducati J.R., Bombassaro M.G., Fachel J.M.G.	Classifying Vineyards From Satellite Images: A Case Study on Burgundy's Côte D'or	2014
A107	Ducati J.R., Sarate R.E., Fachel J.M.G.	Application of Remote Sensing Techniques to Discriminate Between Conventional and Organic Vineyards in the Loire Valley, France	2014
A108	D'Urso G., Maltese A., Palladino M.	E.O.-Based Estimation of Transpiration and Crop Water Requirements for Vineyards: A Case Study in Southern Italy	2014
A109	D'Urso M.G., Marino C.L.	An Application of Close-Up Photogrammetry in Viticulture	2016
A110	Efremova N., Seddik M.E.A., Erten E.	Soil Moisture Estimation Using Sentinel-1/-2 Imagery Coupled With Cyclegan for Time-Series Gap Filing	2022
A111	Epifani L., D'Avino V., Caruso A.	TEBAKA: Territorial Basic Knowledge Acquisition. An Agritech Project for Italy: Results on Self-Supervised Semantic Segmentation	2023
A112	Erena M., Montesinos S., Portillo D., Alvarez J., Marin C., Fernandez L., Henarejos J.M., Ruiz L.A.	Configuration and Specifications of An Unmanned Aerial Vehicle for Precision Agriculture	2016
A113	Espinoza C.Z., Khot L.R., Sankaran S., Jacoby P.W.	High Resolution Multispectral and Thermal Remote Sensing-Based Water Stress Assessment in Subsurface Irrigated Grapevines	2017
A114	Ferrer M., Echeverría G., Pereyra G., Gonzalez-Neves G., Pan D., Mirás-Avalos J.M.	Mapping Vineyard Vigor Using Airborne Remote Sensing: Relations With Yield, Berry Composition and Sanitary Status Under Humid Climate Conditions	2020
A115	Ferro M.V., Catania P., Miccichè D., Pisciotta A., Vallone M., Orlando S.	Assessment of Vineyard Vigour and Yield Spatio-Temporal Variability Based on UAV High Resolution Multispectral Images	2023
A116	Fevgas G., Lagkas T., Argyriou V., Sarigiannidis P.	Detection of Biotic Or Abiotic Stress in Vineyards Using Thermal and RGB Images Captured Via Iot Sensors	2023
A117	Figueiredo N., Pádua L., Sousa J.J., Sousa A.	Terrace Vineyards Detection From UAV Imagery Using Machine Learning: A Preliminary Approach	2021
A118	Figueiredo N., Neto A., Cunha A., Sousa J.J., Sousa A.	Deep Learning Approach for Terrace Vineyards Detection From Google Earth Satellite Imagery	2022
A119	Figueiredo N., Padua L., Cunha A., Sousa J.J., Sousa A.	Exploratory Approach for Automatic Detection of Vine Rows in Terrace Vineyards	2023

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A121	Finn A., Melville-Smith A., Brinkworth R.	Extraction of Vineyard Macrostructure From Sub-Optimal Sequences of Aerial Imagery	2019
A122	Fraga H., Amraoui M., Malheiro A.C., Moutinho-Pereira J., Eiras-Dias J., Silvestre J., Santos J.A.	Examining the Relationship Between the Enhanced Vegetation Index and Grapevine Phenology	2014
A123	Fredes S.N., Ruiz L.Á., Recio J.A.	Modeling Phenols, Anthocyanins and Color Intensity of Wine Using Pre-Harvest Sentinel-2 Images	2021
A124	Fredes S.N., Ruiz L.Á., Recio J.A.	Modeling◦Brix and pH in Wine Grapes From Satellite Images in Colchagua Valley, Chile	2021
A125	Fuentes S., Tongson E.J., De Bei R., Viejo C.G., Ristic R., Tyerman S., Wilkinson K.	Non-Invasive Tools to Detect Smoke Contamination in Grapevine Canopies, Berries and Wine: A Remote Sensing and Machine Learning Modeling Approach	2019
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A373	Wang Y.M., Ostendorf B., Pagay V.	Evaluating the Potential of High-Resolution Visible Remote Sensing to Detect Shiraz Disease in Grapevines	2023
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A377	White W.A., Alsina M.M., Nieto H., McKee L.G., Gao F., Kustas W.P.	Determining a Robust Indirect Measurement of Leaf Area Index in California Vineyards for Validating Remote Sensing-Based Retrievals	2018
A378	Wilson T.G., Kustas W.P., Alfieri J.G., Anderson M.C., Gao F., Prueger J.H., McKee L.G., Alsina M.M., Sanchez L.A., Alstad K.P.	Relationships Between Soil Water Content, Evapotranspiration, and Irrigation Measurements in a California Drip-Irrigated Pinot Noir Vineyard	2020
A379	Wong C.Y.S., Bambach N.E., Alsina M.M., McElrone A.J., Jones T., Buckley T.N., Kustas W.P., Magney T.S.	Detecting Short-Term Stress and Recovery Events in a Vineyard Using Tower-Based Remote Sensing of Photochemical Reflectance Index (PRI)	2022
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