

## Air Pollution Tolerance Index Plant Species

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### Air Pollution Tolerance Index Plant

Air pollution tolerance index of plants. In order to evaluate the susceptibility level of plants to air pollutants, four parameters, namely ascorbic acid, chlorophyll, relative water content, and leaf-extract pH, were determined and computed together in a formulation signifying the air pollution tolerance index (APTI) of plants.

### Air pollution tolerance index of plants - ScienceDirect

Air pollution tolerance index (APTI) of plants growing around industrial area and control site. Various researchers have used the APTI to categorized the plant species into three categories viz. sensitive, intermediate, and tolerant (Padmavathi et al., 2013, Agrawal et al., 1991).

### Air pollution tolerance index of plants growing near an ...

Air Pollution Tolerance Index (APTI) is used to assess how tolerant plant species are of air pollution; it also serves to identify tolerant plant species that can be useful for pollution removal.

### (PDF) Air pollution tolerance index of plants growing near ...

Air pollution tolerance index is used by landscapers to select plant species tolerant to air pollution (Yan-Ju, 2007). Air pollution tolerance index has also been used to rank plant species in their order of tolerance to air pollution (Raza and Murthy, 1988; Singh and Rao, 1983). The aim of this study is therefore to

### Air Pollution tolerance indices (apti) of some plants ...

Since, pollution is an upcoming issue, we aimed at assessing the air pollution tolerance index of plants at two different locations. The locations selected were near road sides of railway junction (location 1) and its residential area (location 2). 12 plants available

### AIR POLLUTION TOLERANCE INDEX OF PLANTS A COMPARATIVE STUDY

Air pollution tolerance index of some terrestrial plant species an indicator of drought resistance in plants. Due to the air pollution, there is reduction in transpiration rate and damage to the leaf engine that pulls water up from the roots (1-2 % of the total). Consequently, the plants neither bring minerals nor cool the leaf.

### A comparative study for air pollution tolerance index of ...

The air pollution tolerance index (APTI) values of the selected plants of different study areas revealed that the APTI values of the plants at the College Farm recorded low compared to Arcot and Ranipet transporation and industrial areas.

### Air pollution tolerance index of selected plants in ...

Air pollution tolerance index indicate the potential of vegetation to encounter air pollution. 5 Plants naturally pure the air by consuming particulate matter and smoke. Sensitive tree species are suggested as bio-indicators.6 Vegetation shows dissimilar behaviour for various pollutants and all components of tree can be used as bio-monitors.7 They are very significant for decisive and balancing ecology by nutrient cycling and gases.

### A review on Air Pollution Tolerance Index (APTI) and ...

Air Pollution Tolerance Index (APTI) is calculated for 24 plant species growing in industrial areas of Visakhapatnam and the data is presented in Table 1. All biochemical parameters that are analyzed for APTI plays significant role to determine resistivity and susceptibility of plant species. Ascorbic acid is important in cell wall synthesis.

### AIR POLLUTION TOLERANCE INDEX OF VARIOUS PLANT SPECIES ...

Plants can filter the air via-aerial elements particularly through twigs, stems, leaves, etc. Afforestation program is the best way to control the air pollution. Air pollution tolerance index ...

### (PDF) A review on Air Pollution Tolerance Index (APTI) and ...

Air Pollution Tolerable Index (APTI): APTI is the inherent quality of plants to counter air pollution stress, which is presently a primary concern, particularly in industrial areas. Therefore, the APTI needs to be monitored and checked in predominant species that are present in polluted and non-polluted areas (Rai et al., 2013).

### INVESTIGATION OF THE AIR POLLUTION TOLERANCE INDEX (A PTI ...

Evaluation of Air Pollution Tolerance Index and Anticipated Performance Index of Selected Plant Species This study reports a combination of two indices, air pollution tolerance index (APTI) and anticipated performance index (API) as viable tools for selecting suitable plants for pollution abatement program.

### Evaluation of Air Pollution Tolerance Index and ...

Air Pollution Tolerance Index in certain plants in the vicinity of a Thermal power station -A case study

### (PDF) Air Pollution Tolerance Index in certain plants in ...

Abstract: -Air pollution tolerance index (APTI) is used by landscapers to select plant species tolerant to air pollution. Four physiological and biochemical parameters including leaf relative water content (RWC), ascorbic acid (AA) content, total leaf chlorophyll (TCh), and leaf extract pH were used to develop an APTI.

### Variation in air pollution tolerance index of plants near ...

Plants responses towards air pollution are assessed by air pollution tolerance index (APTI) value. Present study was conducted for evaluating Air Pollution Tolerance Index (APTI) value of three plant species i.e., Annona squamosa, Ficus racemosa, Santalum album growing in Madri Industrial area of Udaipur.

### Air Pollution Tolerance Index of Certain PlantSpecies-A ...

green belt developers in managing the urban air pollution. Response of plants towards air pollution can be determined by finding air pollution tolerance index of each plant species. The air pollution tolerance index (APTI) based on four parameters has been used for identifying tolerance levels of plants species (Beg et al, 1990; Chauhan, 2010 ...

### Open Access Research Article Seasonal Variation in Air ...

Air pollution tolerance index is one approach that may be employed in the selection processes of urban biodiversity. The response of plants to air pollution at physiological and

### Evaluation of Air Pollution Tolerance Index of Plants and ...

Air pollution tolerance index (APTI) is an important tool to screen out plants based on their tolerance or sensitivity level to different air pollutants. The present study was aimed to identify the sensitive and tolerant plant species in the vicinity of brick kilns in the Rawalpindi city. To determine the susceptibility level of the selected plant species, four biochemical parameters, ascorbic acid, total chlorophyll content, relative water content and pH of leaf extract, were assessed and ...