

• 中文名稱： 印度紫檀

• 英文名稱： Rose Wood , Burma Coast Padauk

• 學名： *Pterocarpus indicus* Willd.

• 科名： 豆科(Fabaceae)紫檀屬(Pterocarpus)

- 別名：
- 印度紫檀，紫檀，青龍木(植物學大辭典)，玫瑰木，黃柏木(松樹植物名錄)，薔薇木、花櫚木、羽葉檀、紅木 **Pterocarpus (印度紫檀 / 紫檀)**: Its most common name in Taiwan. "Zitan" refers to the prized red sandalwood-like quality of its wood.
  - **Green Dragon Wood (青龍木)**: A poetic name from the *Botanical Dictionary*, likely referring to its majestic, spreading canopy.
  - **Rosewood / Rosewood (玫瑰木 / 薔薇木)**: Named for the **gentle rose-like fragrance** that wafts from its wood when cut and its yellow flowers when they bloom.
  - **Huangbo Wood (黃柏木)**: A name found in pine-related botanical records.
  - **Additional Names:**
    - **Hualu Wood (花櫚木)**
    - **Feather-leaf Sandalwood (羽葉檀)**: Referring to its delicate, feathery pinnate leaves.
    - **Redwood (紅木)**: A general term for trees with high-quality red heartwood.

中國廣東、緬甸、印度、爪哇、馬來西亞、菲律賓、波里尼西亞

- 原產地：
- **East Asia:** Southern China (**Guangdong** province).
  - **Southeast Asia:** **Myanmar** (where it gets its common name), **India**, **Java** (Indonesia), **Malaysia**, and the **Philippines**.
  - **Pacific Islands:** Parts of **Polynesia**.

台灣於低海拔各地常被栽培為景觀樹、行道樹。 **Distribution (分佈)**

- 分佈：
- **Regional Reach:** It is widely cultivated across **all low-altitude areas** of Taiwan.
  - **Common Locations:**
    - **Urban Landscapes:** A favorite as a **landscape tree (景觀樹)** in city parks and school

campuses.

- **Street Life:** One of the most common **roadside trees** (行道樹) in Central and Southern Taiwan.
- **Coastal to Inland:** Thrives anywhere below the frost line, particularly in the warmer plains of **Taichung, Tainan, Kaohsiung, and Pingtung**.

1.景觀樹、行道樹：樹性強健，成長快速，綠蔭遮天，樹冠大，遮蔭性佳，枝條稍軟下垂，常栽植為景觀樹、行道樹用。2.木材密緻堅硬可製傢具：是世界上貴重的木材之一，其材質堅硬、紋理高雅、美麗、色彩殷紅又具香氣，俗稱紅木，為高級傢俱和裝飾用材。3.藥用：性味：心材：鹹、平。效用：心材：祛瘀和營，止血定痛，解毒消腫。治頭痛，心腹痛，小便淋痛，風毒癰腫，金瘡出血。**1. Landscaping and Street Trees (景觀樹、行道樹):**

- **Characteristics:** The tree is robust and hardy with a fast growth rate. It creates a dense, "sky-covering" green canopy.
- **Aesthetics:** It features a large crown providing excellent shade; its branches are slightly soft and elegantly drooping.
- **Application:** It is frequently planted as an ornamental landscape tree and as a primary street tree.

• 用途：

**2. Dense, Hard Timber for Furniture (木材密緻堅硬可製傢具):**

- **Global Status:** It is considered one of the most precious timbers in the world.
- **Quality:** The wood is hard with an elegant and beautiful grain. It has a deep, "bloody" red color and carries a natural fragrance.
- **Commercial Name:** Commonly known as "**Redwood**" (紅木), it is a top-tier material for high-end furniture, interior decoration, and luxury crafts.

**3. Medicinal Value (藥用):**

- **Properties (Heartwood):** Salty in flavor and neutral in nature.
- **Efficacy:** The heartwood is used to remove blood stasis, regulate the "Ying" (nutritive) level, stop bleeding, alleviate pain, detoxify, and reduce swelling.
- **Indications:** Used to treat headaches, epigastric/abdominal pain, painful urination

(strangury), toxic swellings (carbuncles), and bleeding from metal wounds (incised wounds).

高 20~25 公尺，樹皮黑褐色，樹幹通直而平滑，具有多數枝條；樹枝斜上昇狀，光滑無毛。

• 莖：

- **Height:** Typically grows to **20–25 meters**, though in ideal tropical conditions, it can go even higher.
- **Bark:** The surface is **dark brown** (black-brown).
- **Trunk:** The main trunk is remarkably **straight and smooth** (通直而平滑), which is one reason why it produces such high-quality, long planks of timber.
- **Branching:** It features numerous branches. These branches generally grow in an **obliquely upward** (斜上昇) direction.
- **Texture:** The twigs and branches are **smooth and hairless** (glabrous).

葉為奇數羽狀複葉，長 15~35 公分，小葉互生，5~12 枚，偶而有 3 枚者，卵形或長橢圓形，葉長 5~10 公分，寬 3~6 公分，先端銳或尾尖，基部鈍或圓，薄革質，中肋顯著，葉緣全緣略有波浪狀，葉脈細，葉面平滑，羽狀側脈，托葉絲狀，脫落性；小葉柄長 0.4~0.6 公分。

• 葉：

- **Type: Odd-pinnate compound leaf** (奇數羽狀複葉). This means the leaf ends with a single leaflet at the very tip, unlike the "even-pinnate" Mahogany.
- **Total Length:** The entire leaf structure measures **15–35 cm**.
- **Leaflets:**
  - **Arrangement:** The leaflets grow **alternately** (互生) along the central axis (rachis).
  - **Quantity:** Typically **5 to 12 leaflets** (occasionally as few as 3).
  - **Shape:** **Ovate** (egg-shaped) or **oblong**.
  - **Size:** Each leaflet is **5–10 cm long** and 3–6 cm wide.
- **Apex & Base:**
  - **Apex (Tip):** Sharp (acute) or tapering into a **tail-like point** (caudate).
  - **Base:** Blunt or rounded.

- **Texture & Surface:**
  - **Texture:** Thinly leathery (薄革質).
  - **Surface:** Smooth on top with a prominent midrib.
- **Marginal Detail:** The edges are **entire** (smooth) but often have a **slight wavy (undulate)** appearance.
- **Fine Anatomy:**
  - **Veins:** Fine, pinnate lateral veins.
  - **Stipules:** Small, thread-like (filiform) structures at the base that fall off early (**deciduous**).
  - **Petiolules (Leaflet Stems):** Very short, only **0.4–0.6 cm** long.

兩性花，花多數，左右相稱，頂生或腋生的總狀花序，有時組合為一圓錐花序，花序長 15~25 公分，有褐色細柔毛，花梗與花萼同長，長 0.6~0.7 公分；苞片對生，線形，早落性，花萼倒圓錐形，長 0.5~0.6 公分，外面有褐色柔毛，先端 5 齒裂，上位二枚最長，花冠黃色，花瓣蝶形，挺出於花萼外，旗瓣圓形或闊卵形，寬 0.9~1.4 公分，翼瓣寬 1~1.2 公分；雄蕊 10 枚，花藥丁字著生；雌蕊子房上位；充滿香氣，花期約在 4~5 月。

#### • 花：

- **Type:** Bisexual flowers (兩性花), zygomorphic (左右相稱 - symmetrical left-to-right).
- **Inflorescence:** Grows in **racemes** (總狀花序) or **panicles** at the tips or leaf axils, measuring **15–25 cm** long.
- **Appearance:** The buds and stalks are covered in fine **brown hairs**. The calyx is cone-shaped with 5 teeth.
- **The Bloom:** The petals are a vibrant **yellow** and shaped like a **butterfly (papilionaceous)**. The "banner" petal is circular and quite wide (0.9–1.4 cm).
- **Experience:** They are **highly fragrant**. In Taiwan, the blooming season is **April to May**.
- **The "One-Day" Fame:** The flowers typically last only **24 to 48 hours**. When they fall all at once, they create a stunning "gold carpet" on the ground.

#### • 果實：

莢果扁圓形，大小約 4~5 公分，中央肥厚，內藏種子 1 粒，似荷包蛋，而豆莢的外緣有一

圈平展的翅，寬約 1 公分，可幫助果實的散布；種子通常 1 粒，少數亦有 2 枚者。

- **Type:** A flat, circular **legume (pod)**, about **4–5 cm** in diameter.
- **Unique Shape:** The center is thick and swollen where the seed is located, while the outer edge is a wide, flat wing (about 1 cm wide).
- **Nickname:** In Taiwan, this is often called the "**Fried Egg**" (**荷包蛋**) pod because of the raised center and flat "white" (wing).
- **Dispersal:** The wing allows the pod to catch the wind or float on water to travel away from the parent tree.
- **Seeds:** Usually contains **1 seed**, though occasionally 2.

落葉大喬木，高 20~25 公尺，樹皮黑褐色，樹幹通直而平滑。葉為奇數羽狀複葉，小葉互生，5~12 枚，偶而有 3 枚者，互生，卵形或長橢圓形，先端銳或尾尖，基部鈍或圓，葉面平滑，羽狀側脈，葉長 5~10 公分，寬 3~6 公分，托葉絲狀，脫落性。兩性花，左右相稱，總狀花序，花梗與花萼同長，花黃色，蝶形，萼片 5 枚，倒圓錐形；花瓣蝶形，旗瓣圓形或闊卵形；雄蕊 10 枚，花藥丁字著生；雌蕊子房上位；充滿香氣，花期約在 4~5 月。莢果扁圓形，大小約 4 公分，中央肥厚內藏種子 1 粒，似荷包蛋，而豆莢的外緣有一圈平展的翅，可幫助果實的散布。印度紫檀，因為花期相當短暫，只能欣賞它短暫的綻放芳華，因此素有一日花之稱。將印度紫檀的木材剖開，會流出紫色汁液，故名之為紫檀。

• 特性：

- **The "Bleeding" Tree:** When the wood is cut, it secretes a **dark red or purple resin**, which is why it is named "**Zitan**" (**Purple Sandalwood/Rosewood**).
- **Growth:** A large deciduous tree reaching **20–25 meters** with a straight, smooth, dark brown trunk.
- **Foliage:** Features odd-pinnate leaves with 5–12 leaflets that have a distinct "tail-like" tip.
- **Ecological Role:** Because it grows fast and has a wide-spreading canopy, it is the ultimate "urban umbrella" for tropical cities.